Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

| | | |
|---|---|---|
| NEWS 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS 2 | | "Ask CAS" for self-help around the clock |
| NEWS 3 | AUG 09 | INSPEC enhanced with 1898-1968 archive |
| NEWS 4 | AUG 28 | ADISCTI Reloaded and Enhanced |
| NEWS 5 | AUG 30 | CA(SM)/CAplus(SM) Austrian patent law changes |
| NEWS 6 | SEP 11 | CA/CAplus enhanced with more pre-1907 records |
| NEWS 7 | SEP 21 | CA/CAplus fields enhanced with simultaneous left and right truncation |
| NEWS 8 | SEP 25 | CA(SM)/CAplus(SM) display of CA Lexicon enhanced |
| NEWS 9 | SEP 25 | CAS REGISTRY(SM) no longer includes Concord 3D coordinates |
| NEWS 10 | SEP 25 | CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine |
| NEWS 11 | SEP 28 | CEABA-VTB classification code fields reloaded with new classification scheme |
| NEWS 12 | OCT 19 | LOGOFF HOLD duration extended to 120 minutes |
| NEWS 13 | OCT 19 | E-mail format enhanced |
| NEWS 14 | OCT 23 | Option to turn off MARPAT highlighting enhancements available |
| NEWS 15 | OCT 23 | CAS Registry Number crossover limit increased to 300,000 in multiple databases |
| NEWS 16 | OCT 23 | The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded |
| NEWS 17 | OCT 30 | CHEMLIST enhanced with new search and display field |
| NEWS 18 | NOV 03 | JAPIO enhanced with IPC 8 features and functionality |
| NEWS 19 | NOV 10 | CA/CAplus F-Term thesaurus enhanced |
| NEWS 20 | NOV 10 | STN Express with Discover! free maintenance release Version 8.01c now available |
| NEWS 21 | NOV 13 | CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role |
| NEWS 22 | NOV 20 | CAS Registry Number crossover limit increased to 300,000 in additional databases |
| NEWS 23 | NOV 20 | CA/CAplus to MARPAT accession number crossover limit increased to 50,000 |
| NEWS 24 | NOV 20 | CA/CAplus patent kind codes will be updated |

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

| | |
|---|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS IPC8 | For general information regarding STN implementation of IPC 8 |
| NEWS X25 | X.25 communication option no longer available |

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific

research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:12:19 ON 30 NOV 2006

=>
=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 11:12:27 ON 30 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 NOV 2006 HIGHEST RN 914111-87-8
DICTIONARY FILE UPDATES: 28 NOV 2006 HIGHEST RN 914111-87-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

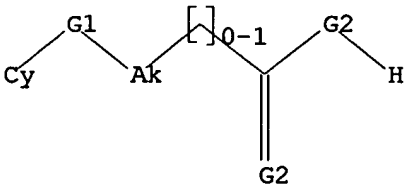
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading c:\documents and settings\pzucker\my documents\examination auxillary files\10025947\10025947 clm 1 amdt 8.9.06

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR




G1 CH2,O,S,N

G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 11:13:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1308644 TO ITERATE

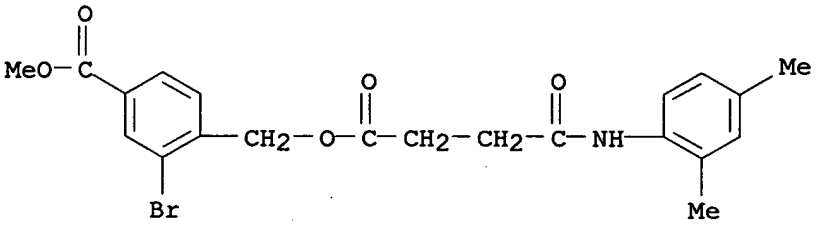
0.2% PROCESSED 2000 ITERATIONS 23 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 26115204 TO 26230556
PROJECTED ANSWERS: 293640 TO 308336

L2 23 SEA SSS SAM L1

=> d scan

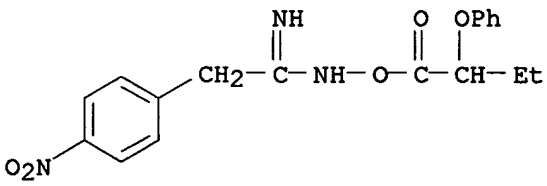
L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C21 H22 Br N O5




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

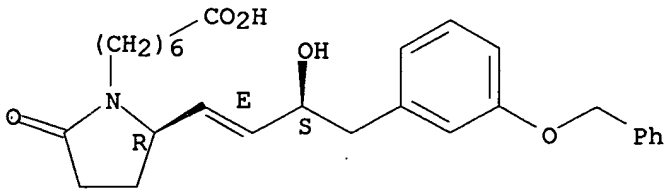
L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Benzeneethanimidamide, 4-nitro-N-(1-oxo-2-phenoxybutoxy)- (9CI)
MF C18 H19 N3 O5




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

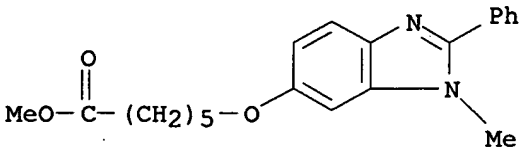
L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Pyrrolidineheptanoic acid, 2-[(1E,3S)-3-hydroxy-4-[3-(phenylmethoxy)phenyl]-1-butenyl]-5-oxo-, (2R)- (9CI)
MF C28 H35 N O5

Absolute stereochemistry.
Double bond geometry as shown.



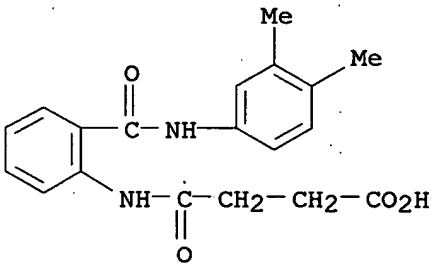
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Hexanoic acid, 6-[(1-methyl-2-phenyl-1H-benzimidazol-6-yl)oxy]-, methyl ester (9CI)
MF C21 H24 N2 O3



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

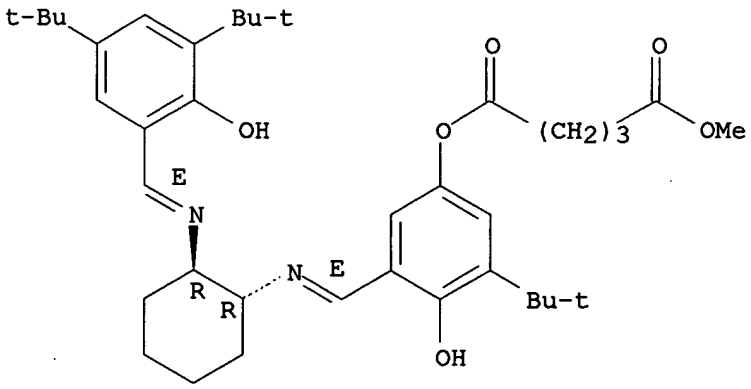
L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-[[2-[[(3,4-dimethylphenyl)amino]carbonyl]phenyl]amino]-4-oxo- (9CI)
MF C19 H20 N2 O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Pentanedioic acid, 3-[(E)-[[(1R,2R)-2-[(E)-[[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]methylene]amino]cyclohexyl]imino]methyl]-5-(1,1-dimethylethyl)-4-hydroxyphenyl methyl ester (9CI)
MF C38 H54 N2 O6

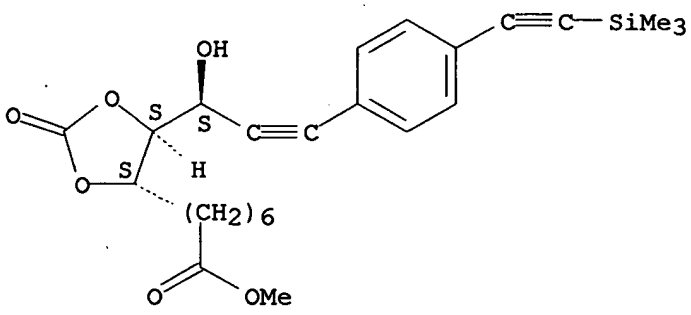
Absolute stereochemistry.
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1,3-Dioxolane-4-heptanoic acid, 5-[1-hydroxy-3-[4-[(trimethylsilyl)ethynyl]phenyl]-2-propynyl]-2-oxo-, methyl ester, [4S-[4α,5β(R*)]]- (9CI)
MF C25 H32 O6 Si

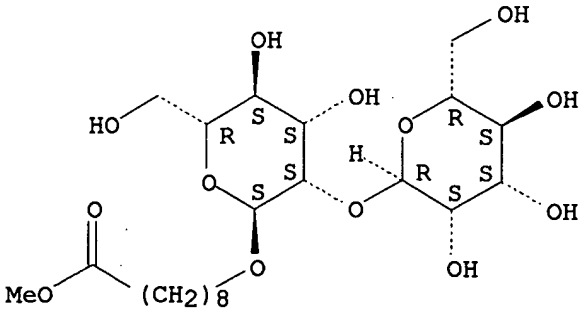
Absolute stereochemistry.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

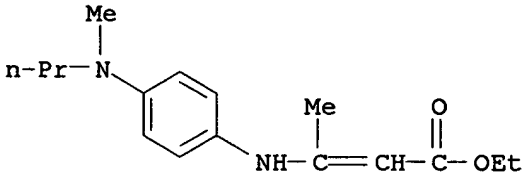
L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Nonanoic acid, 9-[(2-O-α-D-mannopyranosyl-α-D-mannopyranosyl)oxy]-, methyl ester (9CI)
MF C22 H40 O13

Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

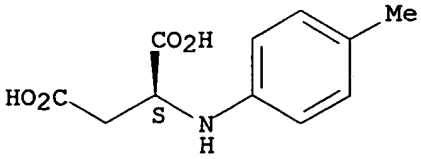
L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Crotonic acid, 3-[p-(methylpropylamino)anilino]-, ethyl ester (6CI)
MF C16 H24 N2 O2



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN L-Aspartic acid, N-(4-methylphenyl)- (9CI)
MF C11 H13 N O4

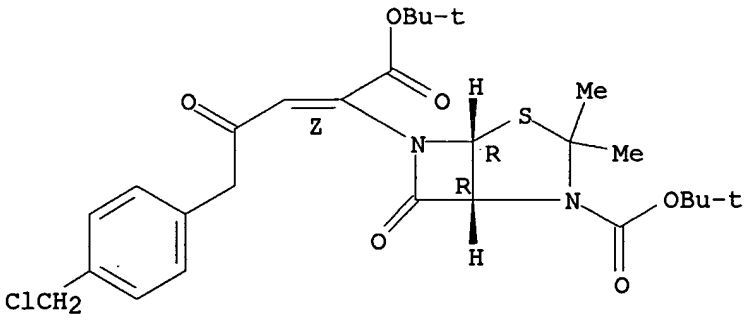
Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4-Thia-2,6-diazabicyclo[3.2.0]heptane-6-acetic acid, α-[3-[4-(chloromethyl)phenyl]-2-oxopropylidene]-2-[(1,1-dimethylethoxy)carbonyl]-3,3-dimethyl-7-oxo-, 1,1-dimethylethyl ester, [1R-[1α,5α,6(Z)]]- (9CI)
MF C27 H35 Cl N2 O6 S

Absolute stereochemistry.
Double bond geometry as shown.

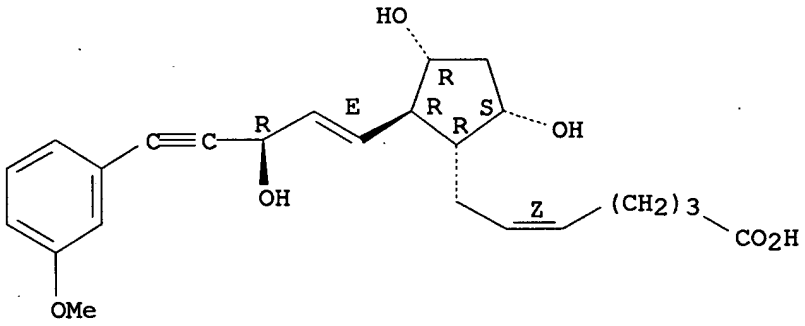



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Heptenoic acid, 7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3R)-3-hydroxy-5-(3-methoxyphenyl)-1-penten-4-ynyl]cyclopentyl]-, (5Z)- (9CI)
MF C24 H30 O6

Absolute stereochemistry.
Double bond geometry as shown.



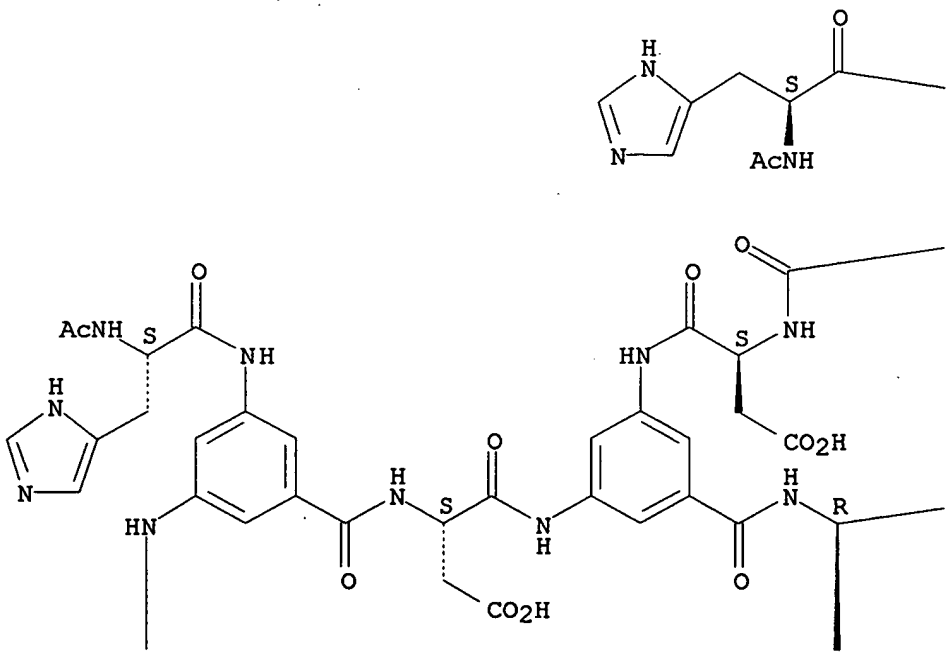

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN L-Histidinamide, N3,N5-bis[N3,N5-bis(N-acetyl-L-seryl)-3,5-diaminobenzoyl-L-α-aspartyl]-3,5-diaminobenzoyl-L-cysteinyl-, (5→5'''')-disulfide with N3,N5-bis[N3,N5-bis(N-acetyl-L-histidyl)-3,5-diaminobenzoyl-L-α-aspartyl]-3,5-diaminobenzoyl-L-cysteinyl-L-serinamide (9CI)
SQL 22,6,6,3,3,1,1,1,1
MF C125 H146 N40 O43 S2

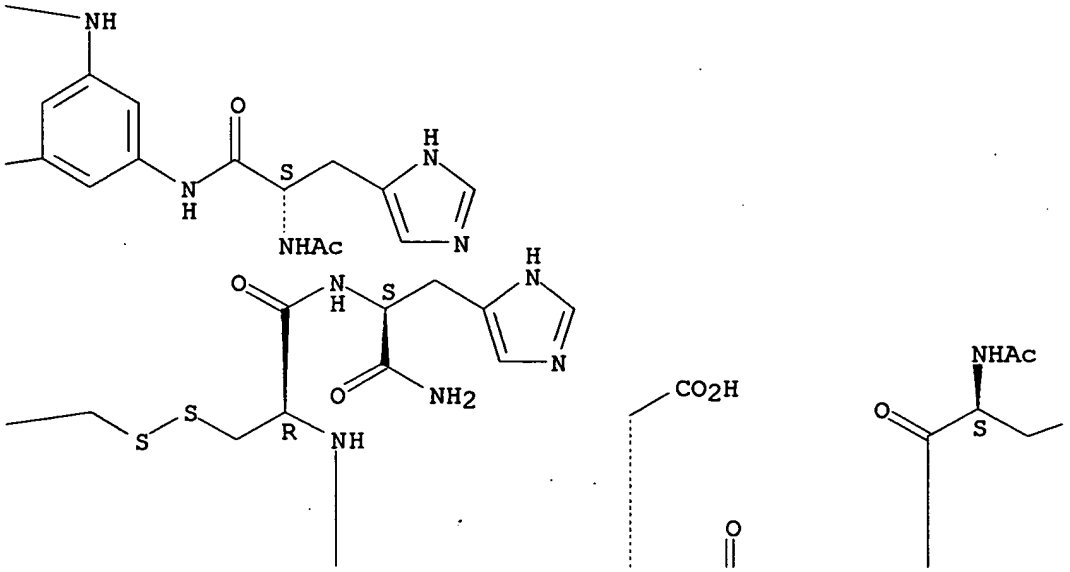
**RELATED SEQUENCES AVAILABLE WITH SEQLINK**

Absolute stereochemistry.

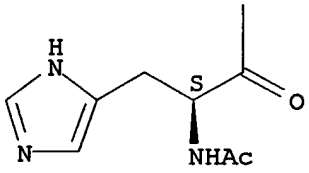
PAGE 1-A



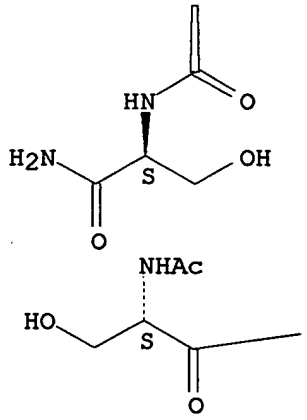
PAGE 1-B

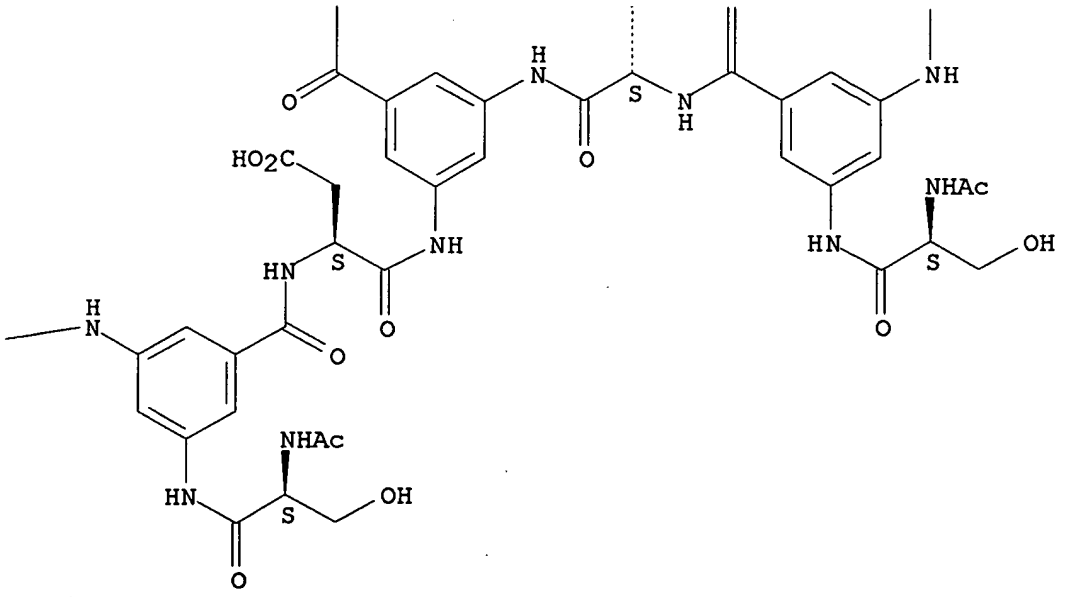



OH


H
N
S
O
N
NHAc

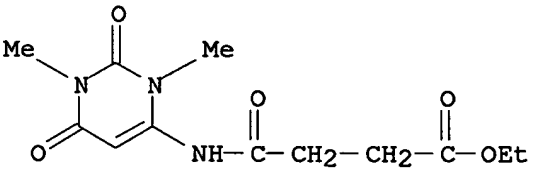



HN
O
H2N
S
OH
O
NHAc
HO
S
O



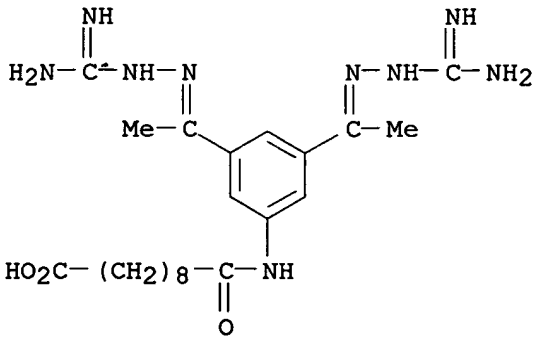
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-oxo-4-[(1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxo-4-pyrimidinyl)amino]-, ethyl ester (9CI)
MF C12 H17 N3 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

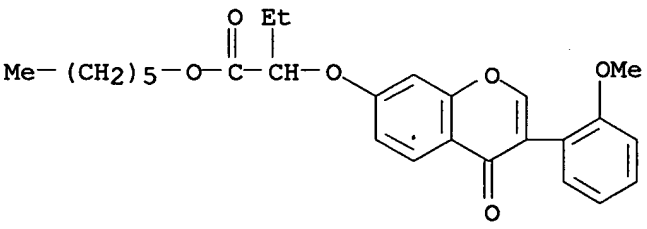
L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Decanoic acid, 10-[[3,5-bis[1-[(aminoiminomethyl)hydrazono]ethyl]phenyl]amino]-10-oxo-, dihydrochloride (9CI)
MF C22 H35 N9 O3 . 2 Cl H



●2 HCl

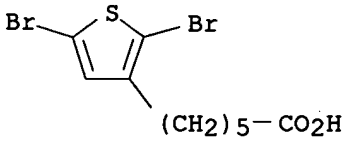
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 2-[[3-(2-methoxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]-, hexyl ester (9CI)
MF C26 H30 O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

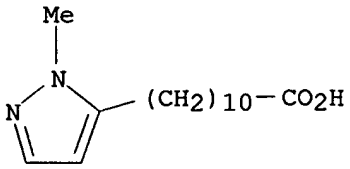
L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3-Thiophenehexanoic acid, 2,5-dibromo- (9CI)
MF C10 H12 Br2 O2 S



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1H-Pyrazole-5-undecanoic acid, 1-methyl- (9CI)

MF C15 H26 N2 O2

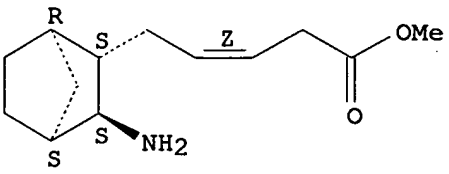


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

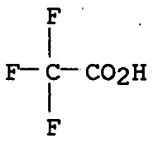
L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3-Pentenoic acid, 5-(3-aminobicyclo[2.2.1]hept-2-yl)-, methyl ester, [1α,2α(Z),3β,4α]-, trifluoroacetate (9CI)
MF C13 H21 N O2 . C2 H F3 O2

CM 1

Relative stereochemistry.
Double bond geometry as shown.



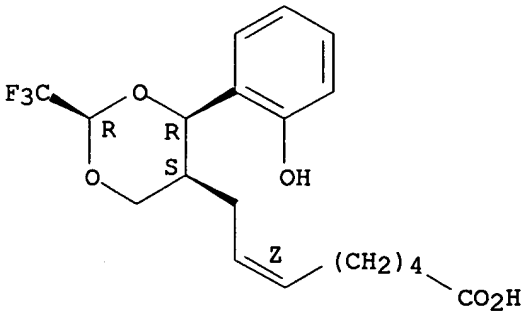
CM 2



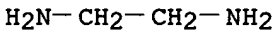
L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Octenoic acid, 8-[4-(2-hydroxyphenyl)-2-(trifluoromethyl)-1,3-dioxan-5-yl]-, [2α,4α,5α(Z)]-, compd. with 1,2-ethanediamine (9CI)
MF C19 H23 F3 O5 . x C2 H8 N2

CM 1

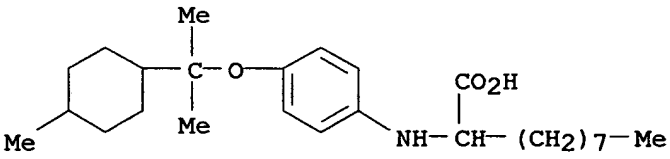
Relative stereochemistry.
Double bond geometry as shown.



CM 2



L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Decanoic acid, 2-[[4-[1-methyl-1-(4-methylcyclohexyl)ethoxy]phenyl]amino]- (9CI)
MF C26 H43 N O3

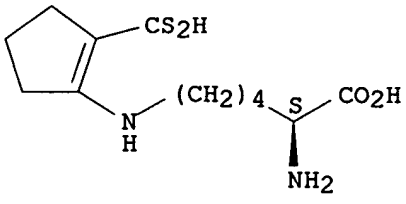


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

L2 23 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN L-Lysine, N6-[2-(dithiocarboxy)-1-cyclopenten-1-yl]- (9CI)
MF C12 H20 N2 O2 S2

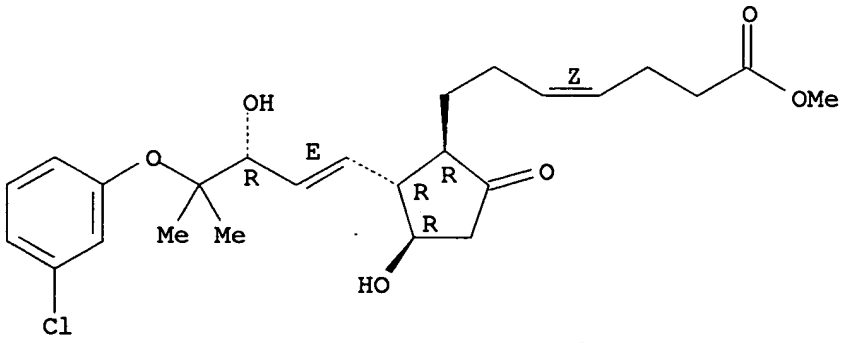
Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2  23 ANSWERS  REGISTRY  COPYRIGHT 2006 ACS on STN
IN  4-Heptenoic acid, 7-[2-[4-(3-chlorophenoxy)-3-hydroxy-4-methyl-1-pentenyl]-3-hydroxy-5-oxocyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3R*),3α]]- (9CI)
MF  C25 H33 Cl O6

Absolute stereochemistry.
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 12.32 | 12.53 |

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:29:14 ON 30 NOV 2006

Connecting via Winsock to STN

Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 11:43:13 ON 30 NOV 2006
FILE 'REGISTRY' ENTERED AT 11:43:13 ON 30 NOV 2006
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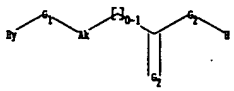
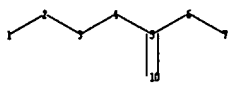
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 12.32 | 12.53 |

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10025947\10025947 Hy limited clm 1 8.9.06.str





chain nodes :
1 2 3 4 5 6 7 10
chain bonds :
1-2 2-3 3-4 4-5 5-6 5-10 6-7
exact/norm bonds :
1-2 2-3 3-4 5-6 5-10 6-7
exact bonds :
4-5

G1:CH2,O,S,N

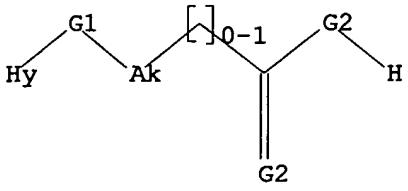
G2:O,S

Hydrogen count :
4:>= minimum 2
Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 10:CLASS
Generic attributes :
3:
Type of chain : Linear

Element Count :
Node 3: Limited
C,C3-12

L3 STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3 STR




G1 CH2,O,S,N

G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> search l3 sss sam
SAMPLE SEARCH INITIATED 11:44:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1308644 TO ITERATE

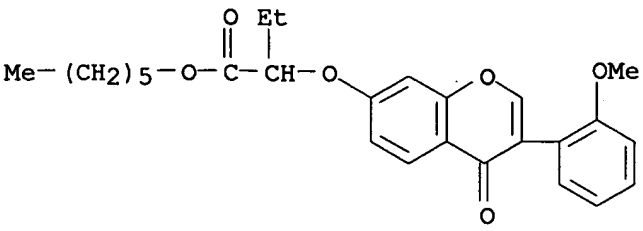
0.2% PROCESSED 2000 ITERATIONS 9 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 26115204 TO 26230556
PROJECTED ANSWERS: 113176 TO 122378

L4 9 SEA SSS SAM L3

=> d scan

L4 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 2-[[3-(2-methoxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]-, hexyl ester (9CI)
MF C26 H30 O6



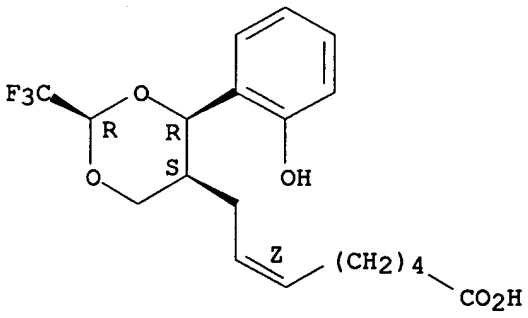

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

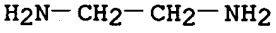
L4 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Octenoic acid, 8-[4-(2-hydroxyphenyl)-2-(trifluoromethyl)-1,3-dioxan-5-yl]-, [2α,4α,5α(Z)]-, compd. with 1,2-ethanediamine (9CI)
MF C19 H23 F3 O5 . x C2 H8 N2

CM 1

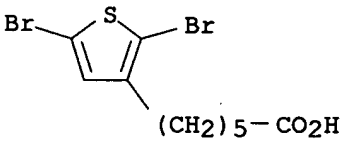
Relative stereochemistry.
Double bond geometry as shown.




CM 2

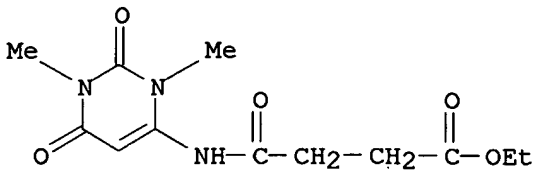



L4 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3-Thiophenehexanoic acid, 2,5-dibromo- (9CI)
MF C10 H12 Br2 O2 S



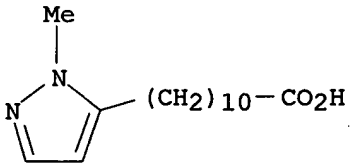

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L4 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Butanoic acid, 4-oxo-4-[(1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxo-4-pyrimidinyl)amino]-, ethyl ester (9CI)
MF C12 H17 N3 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

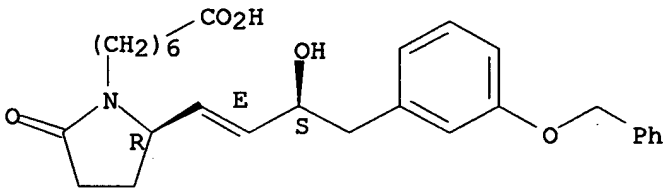
L4 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1H-Pyrazole-5-undecanoic acid, 1-methyl- (9CI)
MF C15 H26 N2 O2



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L4 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1-Pyrrolidineheptanoic acid, 2-[(1E,3S)-3-hydroxy-4-[3-(phenylmethoxy)phenyl]-1-butenyl]-5-oxo-, (2R)- (9CI)
MF C28 H35 N O5

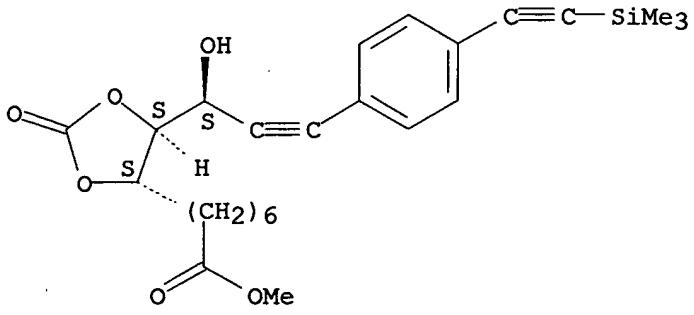
Absolute stereochemistry.
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

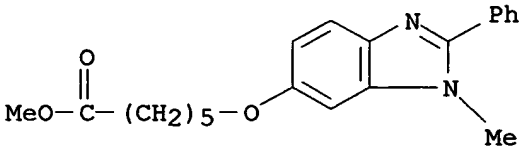
L4 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1,3-Dioxolane-4-heptanoic acid, 5-[1-hydroxy-3-[4-[(trimethylsilyl)ethynyl]phenyl]-2-propynyl]-2-oxo-, methyl ester, [4S-[4α,5β(R*)]]- (9CI)
MF C25 H32 O6 Si

Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

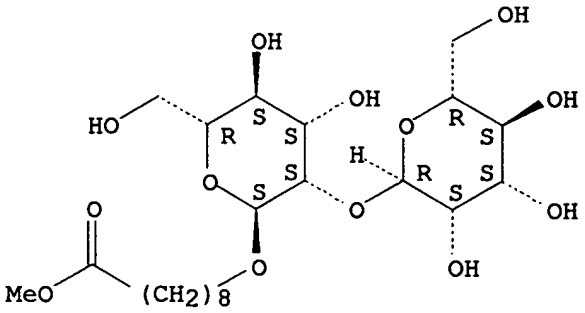
L4 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Hexanoic acid, 6-[(1-methyl-2-phenyl-1H-benzimidazol-6-yl)oxy]-, methyl ester (9CI)
MF C21 H24 N2 O3



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L4 9 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Nonanoic acid, 9-[(2-O-α-D-mannopyranosyl-α-D-mannopyranosyl)oxy]-, methyl ester (9CI)
MF C22 H40 O13

Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=> e Hexanoic acid, 6-[(1-methyl-2-phenyl-1H-benzimidazol-6-yl)oxy]-/cn

```
E1              1      HEXANOIC ACID, 6,7-DITHIABICYCLO(3.2.1)OCT-8-YL ESTER, S-OXI
                       DE, (ENDO,ANTI)-/CN
E2              1      HEXANOIC ACID, 6,7-DITHIABICYCLO(3.2.1)OCT-8-YL ESTER, S-OXI
                       DE, (EXO,ANTI)-/CN
E3              0 --> HEXANOIC ACID, 6-(1-METHYL-2-PHENYL-1H-BENZIMIDAZOL-6-YL)OX
                       Y-/CN
E4              1      HEXANOIC ACID, 6-((((((3,4-DICHLOROPHENYL)METHYL)AMINO)IMIN
                       OMETHYL)AMINO)IMINOMETHYL)AMINO)-/CN
E5              1      HEXANOIC ACID, 6-((((((2-(((3,5-BIS(1,1-DIMETHYLETHYL)-2-HYD
                       ROXYPHENYL)METHYLENE)AMINO)CYCLOHEXYL)AMINO)CARBONYL)AMINO)P
                       HENYLACETYL)AMINO)-, (1R-(1A(S*),2B))-/CN
E6              1      HEXANOIC ACID, 6-((((((2-(((3,5-DIBROMO-2-HYDROXYPHENYL)METH
                       YLENE)AMINO)CYCLOHEXYL)AMINO)CARBONYL)AMINO)PHENYLACETYL)AMI
                       NO)-, (1R-(1A(S*),2B))-/CN
E7              1      HEXANOIC ACID, 6-((((((2-(((3-(1,1-DIMETHYLETHYL)-2-HYDROXY-
                       5-METHOXYPHENYL)METHYLENE)AMINO)CYCLOHEXYL)AMINO)CARBONYL)AM
                       INO)PHENYLACETYL)AMINO)-, (1R-(1A(S*),2B))-/CN
E8              1      HEXANOIC ACID, 6-((((((2-(((3-(1,1-DIMETHYLETHYL)-2-HYDROXY-
                       5-NITROPHENYL)METHYLENE)AMINO)CYCLOHEXYL)AMINO)CARBONYL)AMIN
                       O)PHENYLACETYL)AMINO)-, (1R-(1A(S*),2B))-/CN
E9              1      HEXANOIC ACID, 6-((((((2-(((3-(1,1-DIMETHYLETHYL)-2-HYDROXYP
                       HENYL)METHYLENE)AMINO)CYCLOHEXYL)AMINO)CARBONYL)AMINO)PHENYL
                       ACETYL)AMINO)-, (1R-(1A(S*),2B))-/CN
E10             1      HEXANOIC ACID, 6-((((((2-(((5-(1,1-DIMETHYLETHYL)-2-HYDROXYP
                       HENYL)METHYLENE)AMINO)CYCLOHEXYL)AMINO)CARBONYL)AMINO)PHENYL
                       ACETYL)AMINO)-, (1R-(1A(S*),2B))-/CN
E11             1      HEXANOIC ACID, 6-((((((2-((2-((1-NAPHTHALENYLCARBONYL)AMINO)
                       -1-OXO-3-(1-(TRIPHENYLMETHYL)-1H-IMIDAZOL-4-YL)PROPYL)AMINO)
                       CYCLOHEXYL)OXY)CARBONYL)AMINO)ACETYL)AMINO)-, (1S-(1A,
                       2B(R*)))-/CN
E12             1      HEXANOIC ACID, 6-((((((4-ETHOXYPHENYL)AMINO)CARBONYL)AMINO)O
                       XOACETYL)AMINO)-/CN

=> e Hexanoic acid, 6-((1-methyl-2-phenyl-1H-benzimidazol-6-yl)oxy)-/cn
E1              1      HEXANOIC ACID, 6-((1-IMINOETHYL)AMINO)-2-OXO-/CN
E2              1      HEXANOIC ACID, 6-((1-METHOXY-2-NITROETHENYL)AMINO)-, METHYL
                       ESTER/CN
E3              0 --> HEXANOIC ACID, 6-((1-METHYL-2-PHENYL-1H-BENZIMIDAZOL-6-YL)OX
                       Y)-/CN
E4              1      HEXANOIC ACID, 6-((1-METHYL-2-PHENYL-1H-BENZIMIDAZOL-6-YL)OX
                       Y)-, METHYL ESTER/CN
E5              1      HEXANOIC ACID, 6-((1-METHYL-3-(2-((2-METHYL-1-OXO-2-PROPENYL
                       )OXY)ETHOXY)-3-OXO-1-PROPENYL)AMINO)-/CN
E6              1      HEXANOIC ACID, 6-((1-METHYL-3-OXO-1-BUTENYL)OXY)-, ETHYL EST
                       ER/CN
E7              1      HEXANOIC ACID, 6-((1-METHYL-5-NITRO-1H-IMIDAZOL-2-YL)THIO)-/
                       CN
E8              1      HEXANOIC ACID, 6-((1-METHYLCYCLOHEXADECYL)OXY)-/CN
E9              1      HEXANOIC ACID, 6-((1-METHYLCYCLOHEXADECYL)OXY)-, METHYL ESTE
                       R/CN
E10             1      HEXANOIC ACID, 6-((1-METHYLETHOXY)AMINO)-4,6-DIOXO-/CN
E11             1      HEXANOIC ACID, 6-((1-METHYLETHYL)(3-METHYL-5-(2-(4-PYRIDINYL
                       AMINO)ETHOXY)BENZOYL)AMINO)-/CN
E12             1      HEXANOIC ACID, 6-((1-METHYLETHYL)(3-METHYL-5-(2-(4-PYRIDINYL
                       AMINO)ETHOXY)BENZOYL)AMINO)-, MONO(TRIFLUOROACETATE)/CN

=> d cost
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY     SESSION
CONNECT CHARGES                                  13.30       13.45
NETWORK CHARGES                                   2.10        2.16
                                                -------     -------
FULL ESTIMATED COST                              15.40       15.61
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IN FILE 'REGISTRY' AT 11:47:24 ON 30 NOV 2006


=> logoff hold
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        15.40      15.61

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:47:31 ON 30 NOV 2006

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 12:22:51 ON 30 NOV 2006
FILE 'REGISTRY' ENTERED AT 12:22:51 ON 30 NOV 2006
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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        15.40      15.61

=> logoff hold
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        15.40      15.61

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:23:04 ON 30 NOV 2006

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 12:47:30 ON 30 NOV 2006
FILE 'REGISTRY' ENTERED AT 12:47:30 ON 30 NOV 2006
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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        15.40      15.61

=> e 4-phenyl-2-butynoic acid/cn
E1            1     4-PHENYL-2-BUTYN-1-OL/CN
E2            1     4-PHENYL-2-BUTYN-1-YL CHRYSANTHEMATE/CN
E3            1 --> 4-PHENYL-2-BUTYNOIC ACID/CN
E4            1     4-PHENYL-2-CHLOROPHENOL/CN
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```
E5              1      4-PHENYL-2-CYANOCYCLOBUTANONE/CN
E6              1      4-PHENYL-2-CYANOPYRIDINE/CN
E7              1      4-PHENYL-2-CYCLOHEXEN-1-ONE/CN
E8              1      4-PHENYL-2-CYCLOPENTEN-1-ONE/CN
E9              1      4-PHENYL-2-CYCLOPENTENONE/CN
E10             1      4-PHENYL-2-ETHOXY-N-(2-(3-METHOXY-4-((2-PROPYNYL)OXY)PHENYL)
                       ETHYL)PENTANAMIDE/CN
E11             1      4-PHENYL-2-ETHOXYOXETANE/CN
E12             1      4-PHENYL-2-FLAVENE/CN

=> e3
L5              1 "4-PHENYL-2-BUTYNOIC ACID"/CN

=> d l5

L5   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   40886-84-8  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   2-Butynoic acid, 4-phenyl- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Tetrolic acid, phenyl- (7CI)
OTHER NAMES:
CN   4-Phenyl-2-butynoic acid
MF   C10 H8 O2
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
        (*File contains numerically searchable property data)
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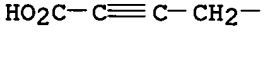

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              3 REFERENCES IN FILE CA (1907 TO DATE)
              3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               24.70      24.91

FILE 'CAPLUS' ENTERED AT 12:51:00 ON 30 NOV 2006
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FILE COVERS 1907 - 30 Nov 2006  VOL 145 ISS 23
FILE LAST UPDATED: 29 Nov 2006  (20061129/ED)
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They are available for your review at:

http://www.cas.org/infopolicy.html

=> lo5
L6 8 LO5

=> l5
L7 3 L5

=> d l7 1-3 ti fbib abs

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI Acetylenic acids. I. Reaction of arylpropiolic acids with carbodiimides
AN 1973:147497 CAPLUS
DN 78:147497
TI Acetylenic acids. I. Reaction of arylpropiolic acids with carbodiimides
AU Cadby, P. A.; Hearn, M. T. W.; Ward, A. D.
CS Org. Chem. Dep., Univ. Adelaide, Adelaide, Australia
SO Australian Journal of Chemistry (1973), 26(3), 557-70
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
AB The formation of substituted 1-phenynaphthalene-2,3-dicarboxylic anhydrides from substituted phenylpropiolic acids by carbodiimides is a general reaction and proceeds in high yields under mild conditions. Heterocyclic acetylenic acids also form analogous products in high yield The reaction is comfined to α,β-acetylenic acids conjugated with an aromatic ring, as alkyl-propiolic acids form mixts. of alkylpropiolic anhydrides and N-acylureas under the same conditions and esters of arylpropiolic acids do not react. The effects of temperature, bases, and solvents on the reaction are described. Some features of the NMR spectra of the 1-phenylnaphthalene products are discussed.

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI A model for the natural synthesis of allenes
AN 1964:2723 CAPLUS
DN 60:2723
OREF 60:402g-h
TI A model for the natural synthesis of allenes
AU Cymerman-Craig, J.; Moyle, M.
CS Univ. California, San Francisco
SO Journal of the Chemical Society (1963), (Nov.), 5356-60
CODEN: JCSOA9; ISSN: 0368-1769
DT Journal
LA Unavailable
OS CASREACT 60:2723
AB The closest available model for a β-polyketone, acetonedicarboxylic ester, was transformed into dimethyl penta-2,3-dienedioate through its enol phosphate which was decomposed by aqueous alkali in 10 sec. at 0°. The enol phosphate of γ-phenylacetoacetic ester needed 24 hrs. for complete elimination. The reaction requires activation in both the groups R and R' in RCH2COCH2R', in a manner similar to that in natural β-polyketones. A possible mechanism for the concurrent formation of acetylenes and allenes in nature is proposed.

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI Addition reactions of acetylenes. I. Chloroformylation of arylacetylenic compds
AN 1963:428242 CAPLUS
DN 59:28242
OREF 59:5043c-h,5044a-d

TI Addition reactions of acetylenes. I. Chloroformylation of arylacetylenic compds

AU Yen, Vo-Quang

SO Ann. Chim. (Paris) (1962), 7, 785-99
DT Journal
LA Unavailable
OS CASREACT 59:28242

AB PhCOMe (0.1 mole) added in small portions to 0.1 mole cold PCl5 and the mixture heated 0.5 hr. at 70-80° gave 64% α-chlorostyrene. The p-bromo- (b13 122-5°), p-methyl- (I), and p-methoxy-α-chlorostyrenes were similarly prepared from p-bromo-, p-methyl-, p-methoxyacetophenone in 77, 74.5, and 35% yields, resp. Dehydrohalogenation of I by treatment with NaNH2 in liquid NH3 overnight gave 61% p-MeC6H4C:CH; this was a much higher yield than was obtained when the reaction was carried out with KOH in alc. at 100°, or with NaNH2 at 150°. PhC:CH (0.5 mole) refluxed 1 hr. with 0.5 mole Na in 400 ml. anhydrous tetrahydrofuran (THF), 0.5 mole Me2SO4 added slowly, and the mixture refluxed 1 hr. gave 47% 1 phenyl-1-propyne (II). 1-(p-Tolyl)-1-propyne (III) (b1 70°), and 1-[p-anisyl)-1-propyne (IV) were similarly prepared from p-tolylacetylene and p-anisylacetylene in 49 and 41% yields, resp. Propargyl bromide (0.5 mole) added slowly to a cold Et2O solution of PhMgBr from 0.5 mole PhBr, and the solution refluxed 1 hr.

gave 65.5% mixture of II, 1-phenylallene, and 1-phenyl2-propyne; 11.6 g. of this mixture gave 82% yield of II (95.5% pure) on isomerization by boiling 10 min. with 1 g. KOH in 50 ml. dry THF. III and IV were similarly obtained from p-bromotoluene and p-bromoanisole in 70 and 52% yields for the 1st step, and 80 (92.6% pure) and 75% (93.4% pure) yields for the isomerization, resp.; the isomerizations in these eases were carried out for 1 hr. The isomerization reactions ArCH2C:CH .dblharw. ArCH:C:CH2 .dblharw. ArC:CMe, where Ar = Ph, p-MeC6H4, or p-MeOC6H4, were studied by gas chromatography, infrared and Raman spectroscopy, and by determination of acetylenic bonds. The yields of the 1-aryl-1-propynes decreased if the isomerization time was increased, probably because of polymerization of the intermediate arylallenes. The mechanism of chloroformylation is discussed. A study of chloroformylation showed: (1) the presence of a solvent or an increase in temperature at the beginning of the reaction decreased

the yield; (2) the best yields were obtained at .apprx.0° and a reaction time of 10 hrs.; (3) stirring increased the yield. HCONMe2 could not replace N-methylformanilide (V) in chloroformylation of PhC:CH; excess POCl3 increased the yield; excess V had no influence. The general procedure for formylation of α-chlorostyrenes and for chloroformylation of arylacetylenes consisted in stirring, 0.5 hr. at 0°, a mixture of 0.1 mole V and 0.12 mole POCl3, adding slowly 0.1 mole of the compound to be formylated or chloroformylated, and then continuing to stir 15 hrs. at 0°. The following ArCCl: CHCHO were prepared [Ar, yield when prepared from ArC:CH, yield when prepared from ArCCl:CH2, and (if new compds.) m.p. or b.p., and m.ps. of semicarbazone, phenylhydrazone, 2,4dinitrophenylhydrazone, and oxime given]: Ph, 39%, 45%, -, 234°, 150°, 226°, 78°; p-BrC6H4, 41%, 24%, 102°, 233°, 157°, 258°, 120°; p-MeC6H4, 46%, 68%, b0.5 120°, 256°, 148°, 235°, 110°; and p-MeOC6H4, 67%, 51%, -, 225°, 158°, 210°, 137°. Tire following ArCCl: CMeCHO were prepared from the corresponding ArC:CMe (Ar, % yield, b.p., and m.ps. of semicarbazone, 2,4-dinitrophenylhydrazone, and oxime given): Ph, 47%, b0.5 94°, 162° (155°), 227° (155°), 120°; p-MeC6H4, 53.5%, b0.5 102°, 228°, 196°(210°), 155°; and p-MeOC6H6, 55%, b0.5 135° (m. 44°), 250°, 184°, 126°. p-Diethynylbenzene gave 20% 1-chloro-1-p-ethynylphenylpropen-3-al; semicarbazone m. 260° (decomposition); 2,4-dinitrophenylhydrazone m.

245°; 9,10-diethynylanthracene gave 17.5% 9,10-bis(1-chloropropen-3al)anthracene, m. 215°. The liquid chlorinated aldehydes decomposed slowly in air and light. Oxidation of the arylchloropropenals (0.01 mole) was carried out in aqueous-alc. solution by stirring overnight with 0.04 mole AgNO3 and 0.08 mole NaOH. The following ArCCl:CRCO2H were formed [Ar, R, % yield, and m.p. (if a new compound) given]: Ph, H, 56%, -; p-BrC6H4, H, 68, 173°; p-MeC6H4, H, 61, 168°; p-MeOC6H4, H, 47, 166°; Ph, Me, 58, -; and p-MeC6H4, Me, 43, 107°. For purposes of comparison with these acids, ArCHo2CCMgBr was treated overnight with dry ice and the α-acetylenic acids obtained were treated with a current of dry HCl at 90-100° for 5-10 hrs.; the following ArCH2C:CCO2H (VI) and ARCH2CCl:CHCO2H (VII) were obtained far, % yield of VI, m.p. of VI, % yield of VII, and m.p. of VII given): Ph, 34.5, 48°, 41, 90°; p-MeC6H4, 35, 72°, 47.5, 94°; and p-MeOC6H4, 31, 86°, 43, 80°. The infrared spectra of VI and VII were compared. The arylchloropropenals (0.001 mole in the case of condensation with an atiphatic ketone, or 0.002 mole with a cyclic ketone) and 0.001 mole ketone were dissolved in 10 ml. EtOH, the mixture was heated to 50°, a few drops of fresh 5% aqueous NaOH solution added, and the mixture kept at 51° .apprx.10 min.; the following chalcones were thus prepared: ArCCl:CRCH:CHCOAr' (Ar, R, Ar', % yield, and m.p. given): Ph, H, Ph, 52, 90°; Ph, H, p-BrC6H4, 61, 130°; Ph, H, p-ClC6H4, 60, 124°; Ph, H, p-MeOC6H4, 69, 134°; p-MeC6H4, H, Ph, 49, 75°; p-MeC6H4, H, p-BrC6H4, 57, 148°; p-MeC6H4, H, p-ClC6H4, 62, 143°; p-MeC6H4, H, p-MeC6H4, 54, 99°; Ph, Me, Ph, 62, 110°; Ph, Me, p-McC6H4, 57, 95°; Ph, Me, p-MeOC6H4, 63, 124°; p-MeC6H4, Me, p-BrC6H4, 51, 113°; p-MeC6H4, Me, p-ClC6H4, 55, 117°; p-MeC6H4, Me, p-MeC6H4, 59, 100°; and p-MeC6H4, Me, p-MeOC6H4, 66, 143°. VIIa (ar, R, % yield, and m.p. given): Ph, H, 72, 165°; p-MeC6H4, H, 69, 194°; p-MeOC6H4, H, 76, 195°; Ph, Me, 68, 186°; and p-MeC6H4, Me, 64, 180°; and VIIb (Ar, R, % yield, and m.p. given): Ph, H, 71, 216°; p-MeC6H4, H, 74, 244°; p-MeOC6H4, H, 75, 180°; Ph, Me, 67, 143°; and p-MeC6H4, Me, 61, 149°. The ultraviolet spectra of the chalcones were determined V and POCl3 with phenylallene gave 2-chloromethyl-1-phenylpropen-3-al, m. 67°, whose ultraviolet and nuclear magnetic resonance spectra were determined

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 15.69 | 40.60 |

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FULL ESTIMATED COST                                    15.69      40.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                    15.69      40.60

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CA SUBSCRIBER PRICE                                    -2.25      -2.25

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on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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                    CN
E2            1     5-TETRAHYDROPTEROYLTRIGLUTAMATE METHYLTRANSFERASE/CN
E3            0 --> 5-TETRAHYDROPYRANYLOXY-2-PENTENOIC ACID/CN
E4            1     5-TETRAHYDROPYRANYLOXY-7-BENZOFURANCARBOXALDEHYDE/CN
E5            1     5-TETRALINCARBOXALDEHYDE/CN
E6            1     5-TETRALINYLAMINE/CN
E7            1     5-TETRAPHOSPHABOROLANAMINE, 1,2,3,4-TETRAKIS(1,1-DIMETHYLETH
                    YL)-N,N-BIS(1-METHYLETHYL)-, (1A,2B,3A,4.BE
                    TA.)-/CN
E8            1     5-TETRAPHTHENEMERCAPTAN/CN
E9            1     5-TETRAPHTHENESULFINIC ACID/CN
E10           1     5-TETRAPHTHENESULFONAMIDE/CN
E11           1     5-TETRAPHTHENESULFONANILIDE/CN
E12           1     5-TETRAPHTHENESULFONIC ACID/CN

=>
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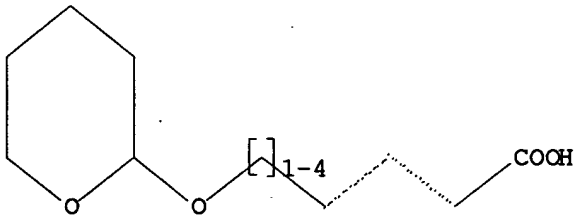


Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 869 TO ITERATE

100.0% PROCESSED 869 ITERATIONS 34 ANSWERS
SEARCH TIME: 00.00.01

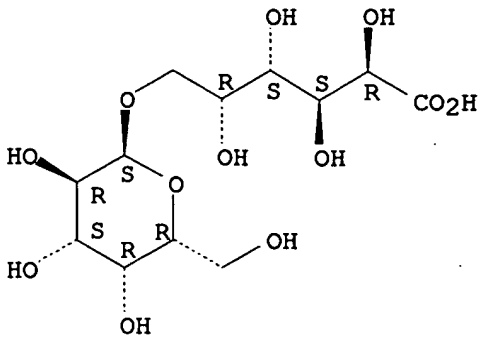
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 15612 TO 19148
PROJECTED ANSWERS: 331 TO 1029

L9 34 SEA SSS SAM L8

=> d scan

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-Galactonic acid, 6-O-α-D-galactopyranosyl- (9CI)
MF C12 H22 O12

Absolute stereochemistry.



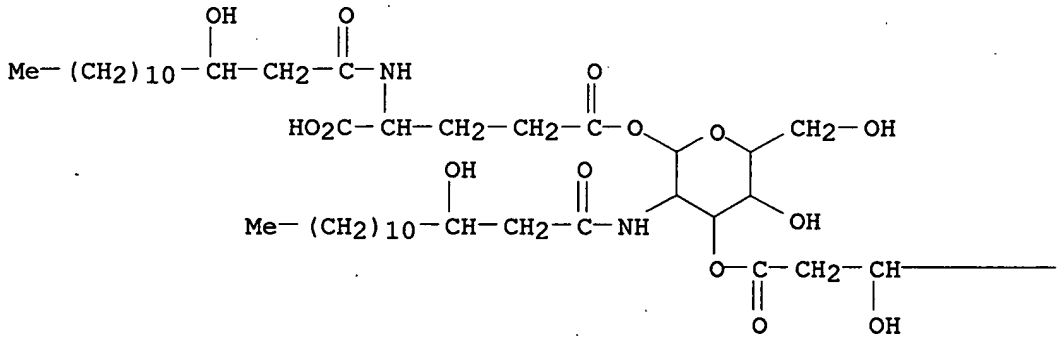

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-Glutamic acid, N-(3-hydroxy-1-oxotetradecyl)-, 5-[2-deoxy-3-O-(3-hydroxy-1-oxotetradecyl)-2-[(3-hydroxy-1-oxotetradecyl)amino]-α-D-glucopyranosyl] ester, [1(R),2(R),3(R)]-, compd. with 2-amino-2-(hydroxymethyl)-1,3-propanediol (1:1) (9CI)
MF C53 H98 N2 O14 . C4 H11 N O3

CM 1

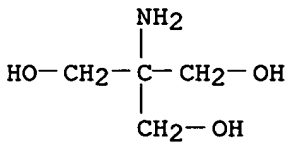
PAGE 1-A



PAGE 1-B

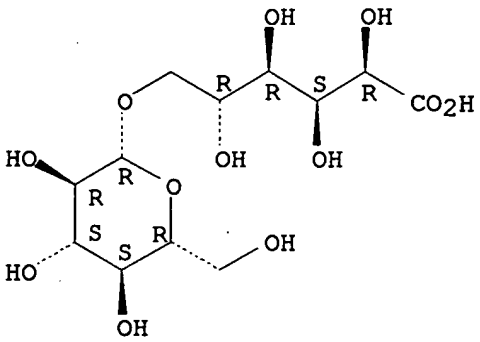
—(CH2)10—Me

CM 2



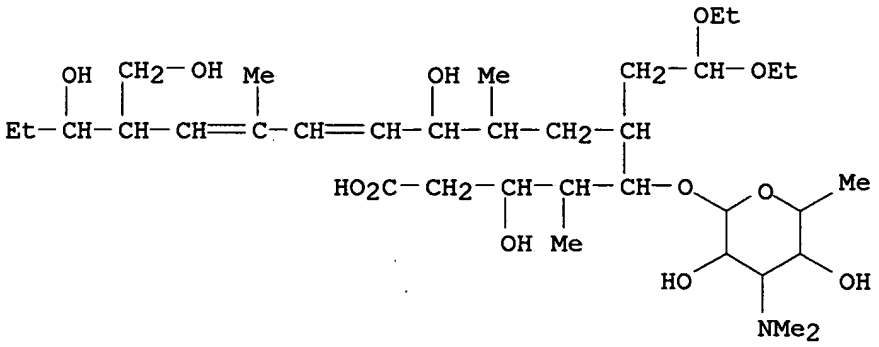
L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Gentiobionic acid, Ca salt (6CI)
MF C12 H22 O12 . 1/2 Ca

Absolute stereochemistry.



●1/2 Ca

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 10,12-Heptadecadienoic acid, 5-[[3,6-dideoxy-3-(dimethylamino)-β-D-glucopyranosyl]oxy]-6-(2,2-diethoxyethyl)-3,9,15-trihydroxy-14-(hydroxymethyl)-4,8,12-trimethyl-, [3R-(3R*,4S*,5S*,6R*,8R*,9R*,10E,12E,14R*,15R*)]- (9CI)
MF C35 H65 N O12

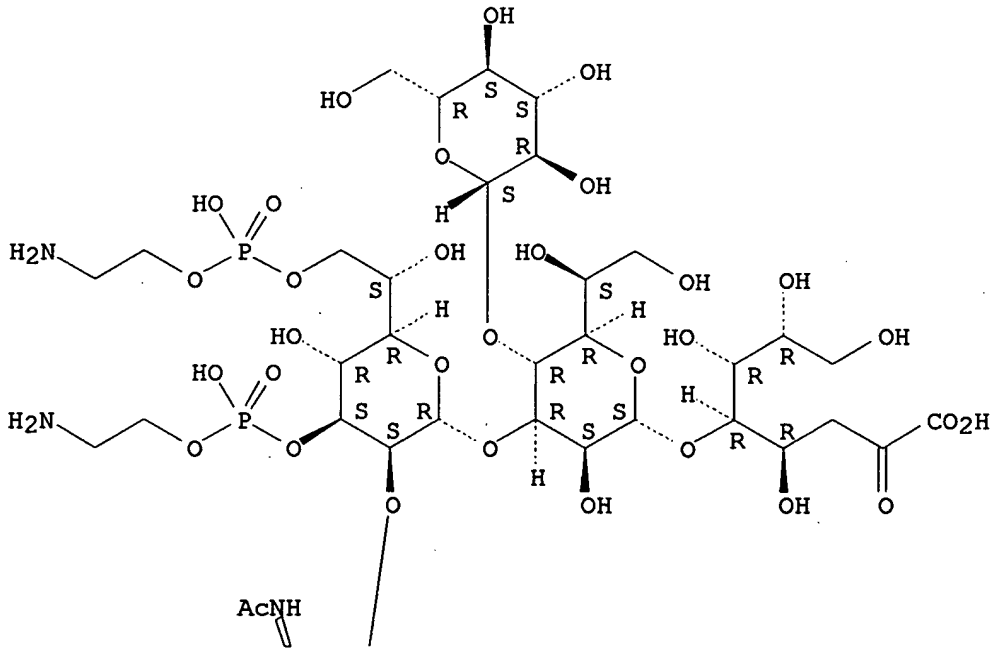


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-manno-2-Octulosonic acid, O-2-(acetylamino)-2-deoxy-α-D-glucopyranosyl-(1→2)-O-3,7-bis-O-[(2-aminoethoxy)hydroxyphosphinyl]-L-glycero-α-D-manno-heptopyranosyl-(1→3)-O-[β-D-glucopyranosyl-(1→4)]-O-L-glycero-α-D-manno-heptopyranosyl-(1→5)-3-deoxy- (9CI)
MF C40 H73 N3 O36 P2

Absolute stereochemistry.

PAGE 1-A



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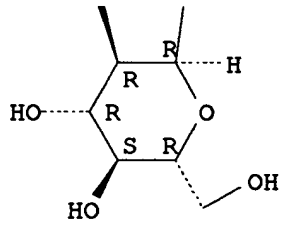
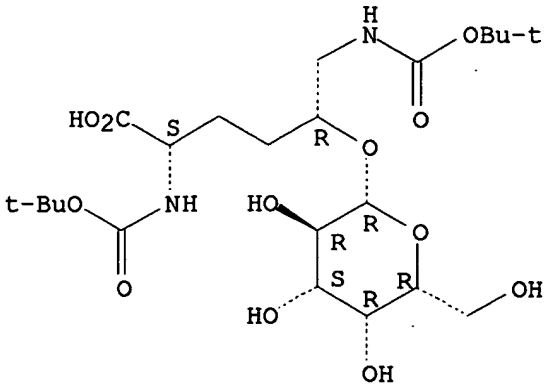


L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN L-Lysine, N2,N6-bis[(1,1-dimethylethoxy)carbonyl]-5-(β-D-galactopyranosyloxy)-, (5R)- (9CI)
MF C22 H40 N2 O12

Absolute stereochemistry. Rotation (-).



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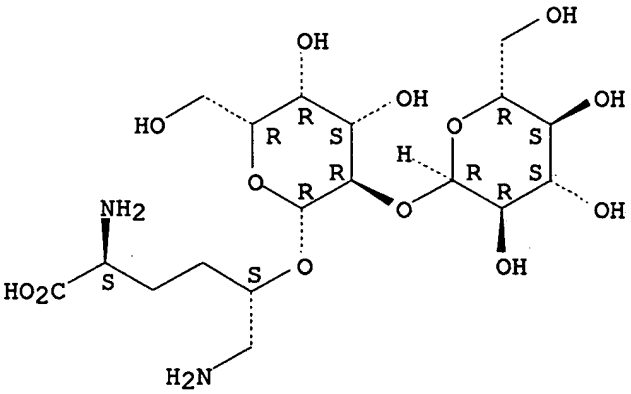
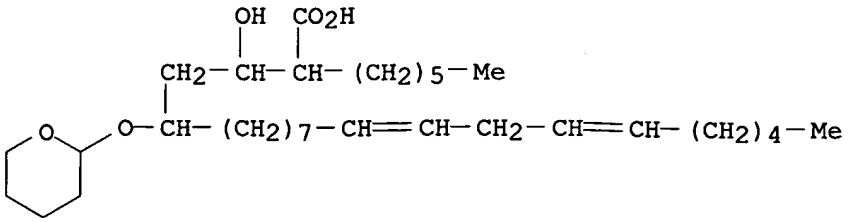
L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN L-Lysine, 5-[(2-O-α-D-glucopyranosyl-β-D-galactopyranosyl)oxy]-, threo- (9CI)
MF C18 H34 N2 O13
CI COM

Absolute stereochemistry. Rotation (+).



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

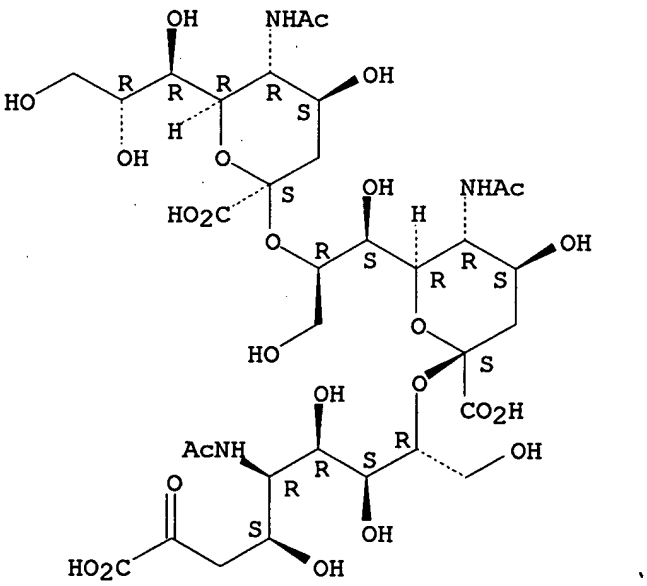
L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 13,16-Docosadienoic acid, 2-hexyl-3-hydroxy-5-[(tetrahydro-2H-pyran-2-yl)oxy]- (9CI)
MF C33 H60 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Neuraminic acid, O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-N-acetyl- (9CI)
MF C33 H53 N3 O25

Absolute stereochemistry.



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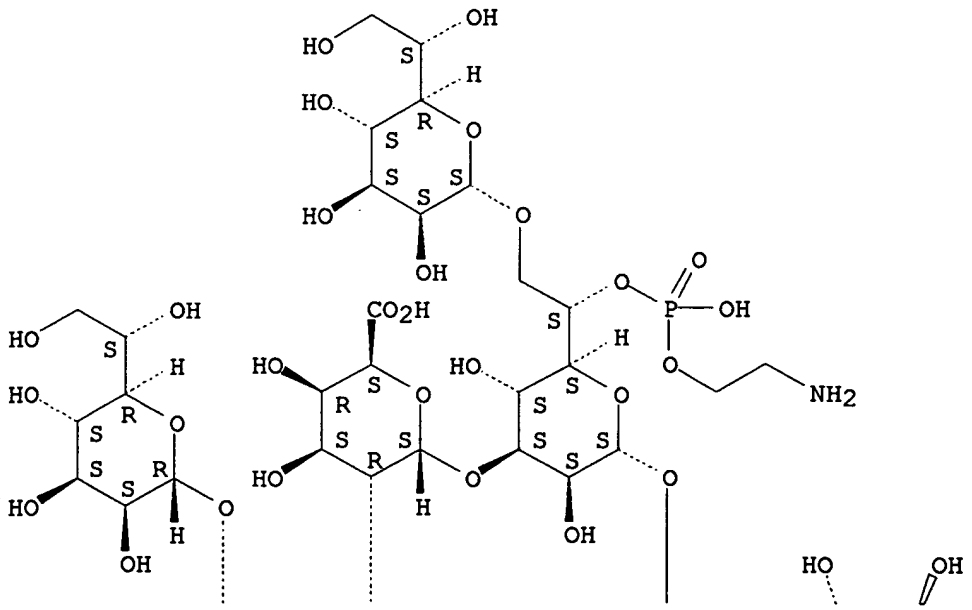
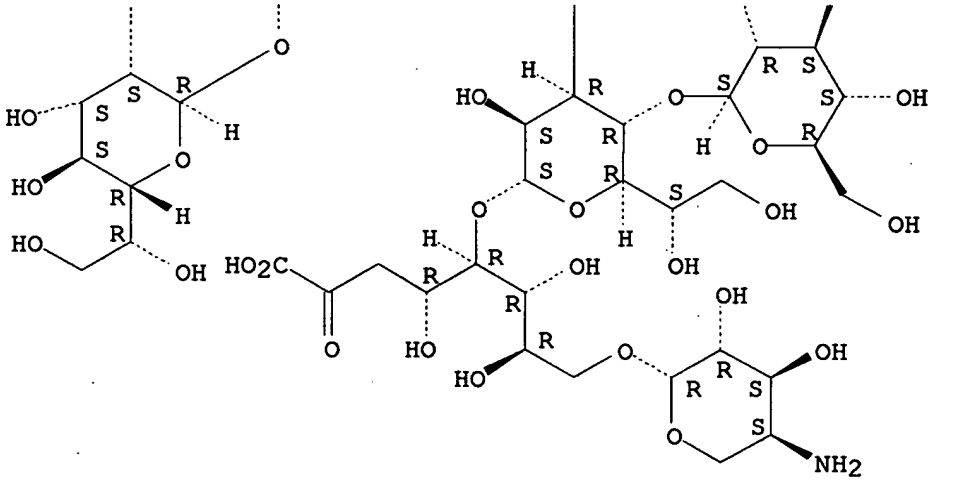
IN D-manno-2-Octulosonic acid, O-L-glycero-α-D-manno-heptopyranosyl-(1→2)-O-D-glycero-α-D-manno-heptopyranosyl-(1→2)-O-α-D-galactopyranuronosyl-(1→3)-O-[L-glycero-α-D-manno-heptopyranosyl-(1→7)]-O-6-O-[(2-aminoethoxy)hydroxyphosphinyl]-L-glycero-α-D-manno-heptopyranosyl-(1→3)-O-[β-D-glucopyranosyl-(1→4)]-O-L-glycero-α-D-manno-heptopyranosyl-(1→5)-O-[4-amino-4-deoxy-β-L-arabinopyranosyl-(1→8)]-3-deoxy- (9CI)
MF C62 H107 N2 O55 P

Absolute stereochemistry.







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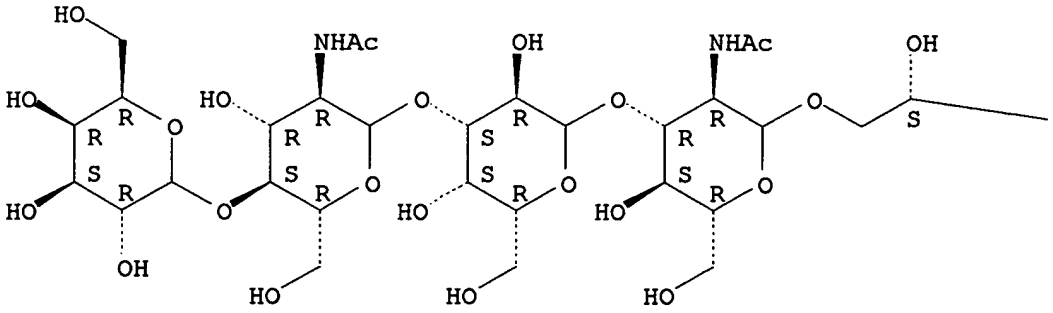
L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-manno-2-Octulosonic acid, O-α-D-galactopyranosyl-(1→6)-O-[O-D-galactopyranosyl-(1→4)-O-2-(acetylamino)-2-deoxy-D-glucopyranosyl-(1→3)-O-D-galactopyranosyl-(1→3)-O-2-(acetylamino)-2-deoxy-D-glucopyranosyl-(1→7)-O-L-glycero-α-D-manno-heptopyranosyl-(1→6)-O-α-D-glucopyranosyl-(1→2)-α-D-glucopyranosyl-(1→3)]-O-α-D-glucopyranosyl-(1→3)-O-[L-glycero-α-D-manno-heptopyranosyl-(1→7)]-O-L-glycero-α-D-manno-heptopyranosyl-(1→3)-O-L-glycero-α-D-manno-heptopyranosyl-(1→5)-3-deoxy- (9CI)

MF C88 H148 N2 O72

Absolute stereochemistry.
Currently available stereo shown.

PAGE 1-A



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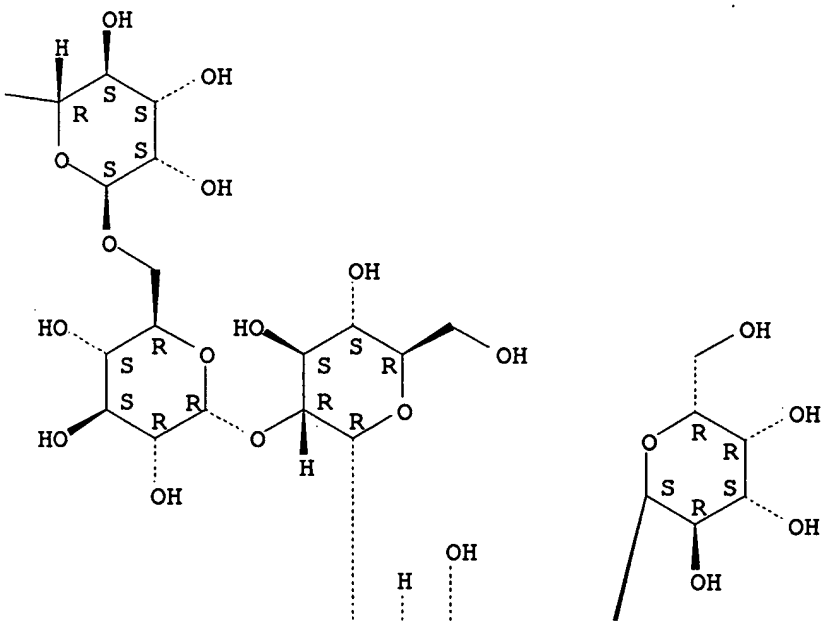

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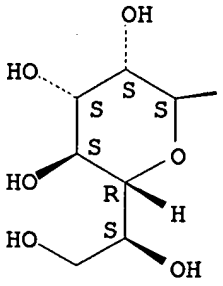

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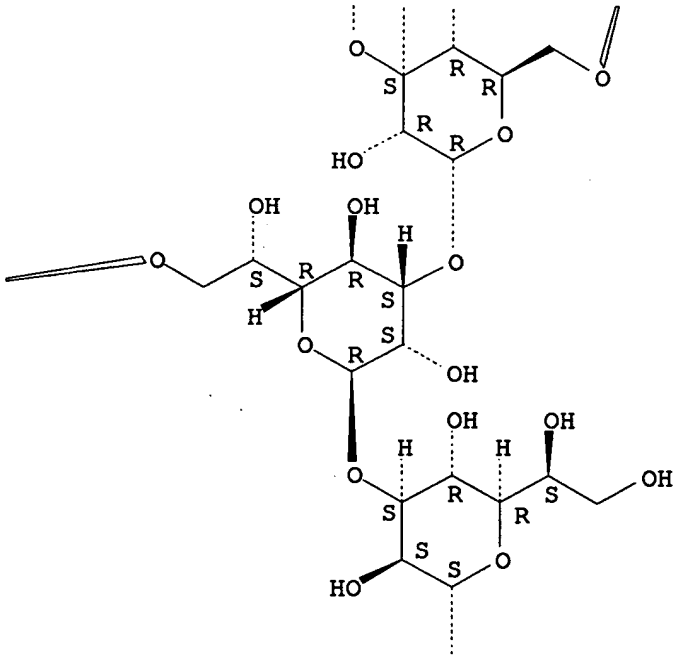

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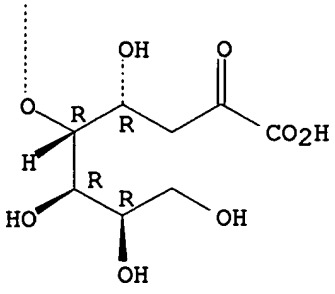

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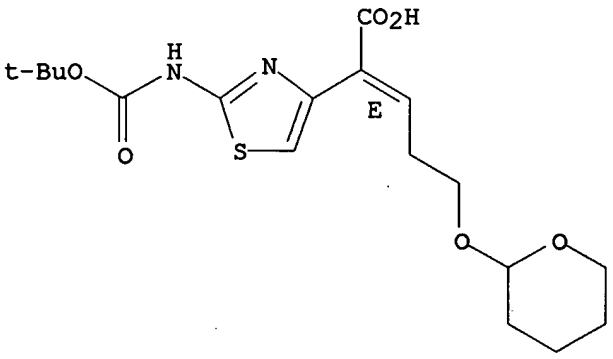
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4-Thiazoleacetic acid, 2-[[(1,1-dimethylethoxy)carbonyl]amino]-α-[3-[(tetrahydro-2H-pyran-2-yl)oxy]propylidene]-, (E)- (9CI)
MF C18 H26 N2 O6 S

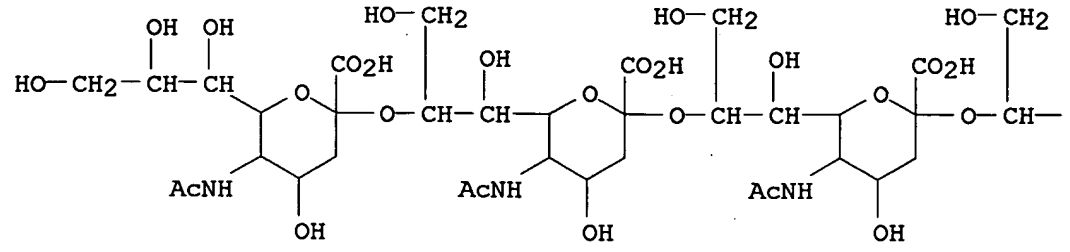
Double bond geometry as shown.



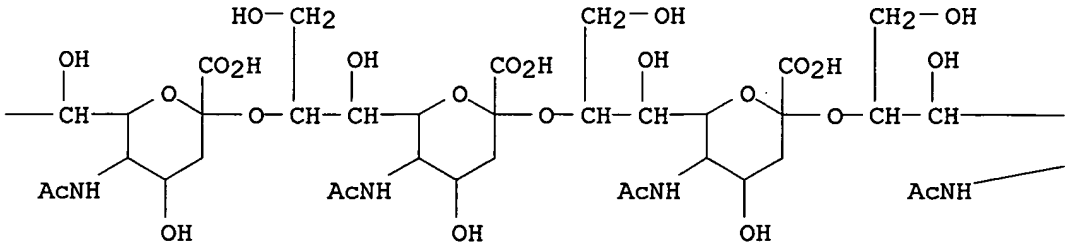
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Neuraminic acid, O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-N-acetyl- (9CI)
MF C110 H172 N10 O81

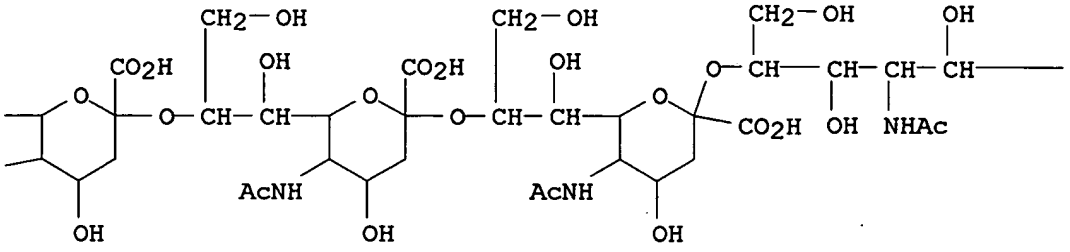
PAGE 1-A



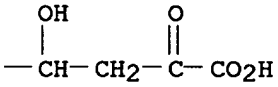
PAGE 1-B



PAGE 1-C



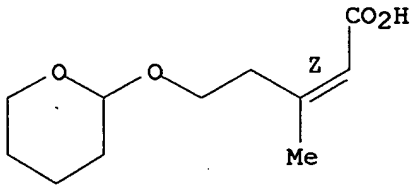
PAGE 1-D



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Pentenoic acid, 3-methyl-5-[(tetrahydro-2H-pyran-2-yl)oxy]-, (Z)- (9CI)
MF C11 H18 O4

Double bond geometry as shown.



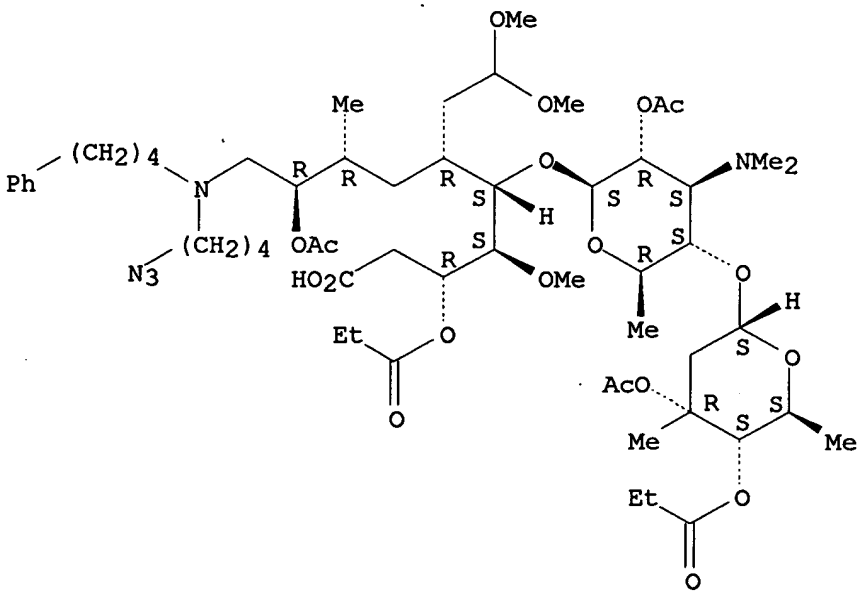
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN L-erythro-L-gluco-Deconic acid, O-3-O-acetyl-2,6-dideoxy-3-C-methyl-4-O-(1-

oxopropyl)-α-L-ribo-hexopyranosyl-(1→4)-O-2-O-acetyl-3,6-dideoxy-3-(dimethylamino)-β-D-glucopyranosyl-(1→5)-10-[(4-azidobutyl)(4-phenylbutyl)amino]-2,6,7,8,10-pentadeoxy-6-(2,2-dimethoxyethyl)-8-methyl-4-O-methyl-, 9-acetate 3-propanoate (9CI)

MF C57 H93 N5 O19

Absolute stereochemistry. Rotation (-).

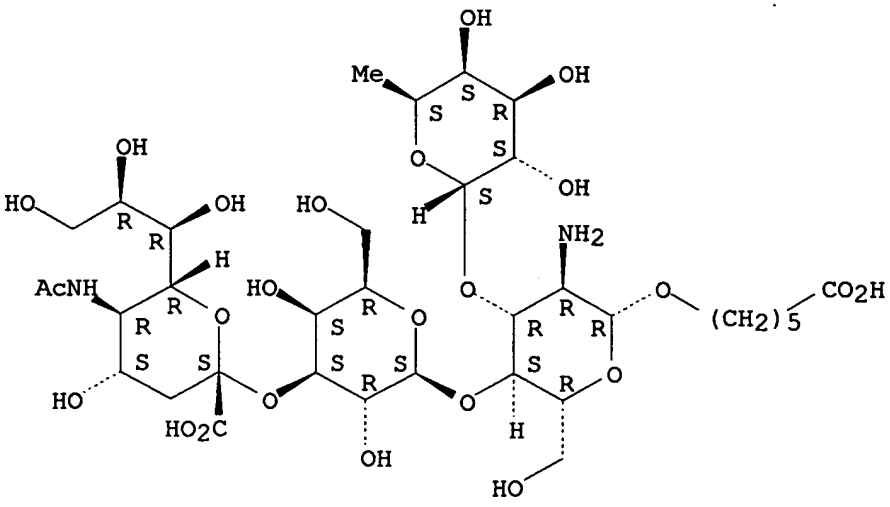


L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Hexanoic acid, 6-[[O-(N-acetyl-α-neuraminosyl)-(2→3)-O-β-D-galactopyranosyl-(1→4)-O-[6-deoxy-α-L-galactopyranosyl-(1→3)]-2-amino-2-deoxy-β-D-glucopyranosyl]oxy]- (9CI)

MF C35 H60 N2 O24

Absolute stereochemistry.

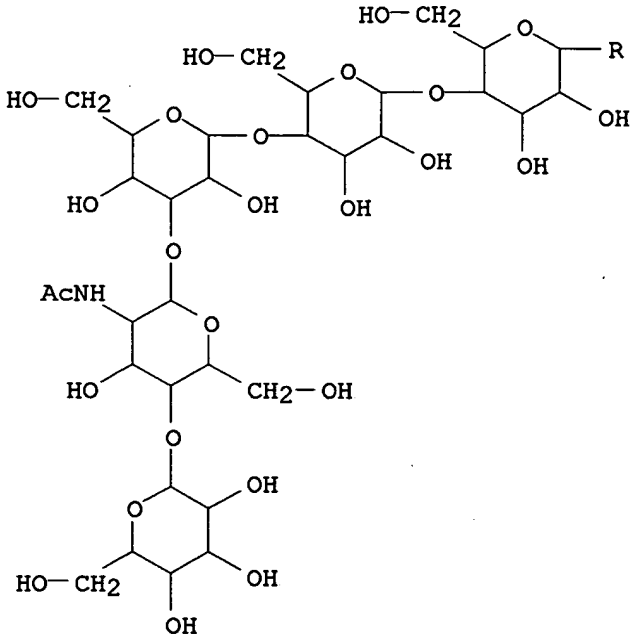


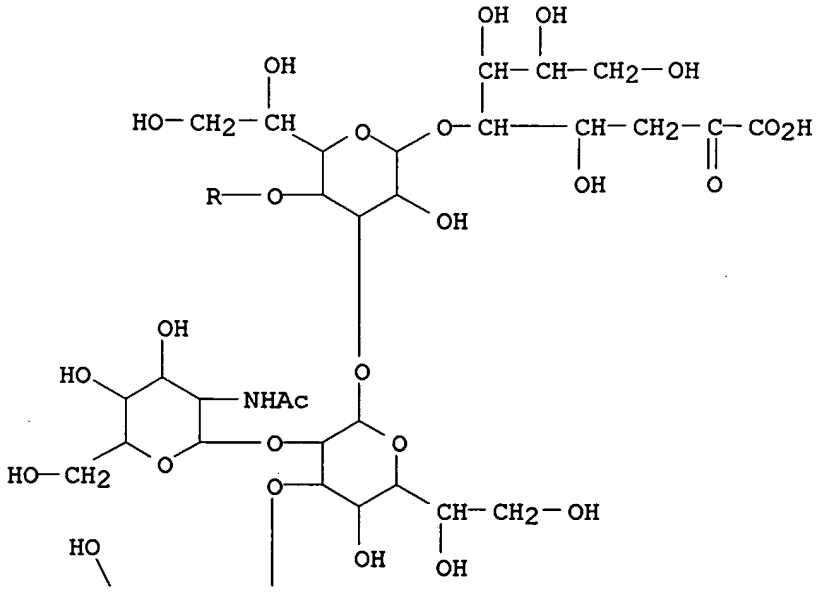
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-manno-2-Octulosonic acid, O-[O-acetyl-2-(acetylamino)-2-deoxy-α-D-glucopyranosyl]-(1→2)-O-[α-D-glucopyranosyl-(1→3)]-O-L-glycero-α-D-manno-heptopyranosyl-(1→3)-O-[O-β-D-galactopyranosyl-(1→4)-O-2-(acetylamino)-2-deoxy-β-D-glucopyranosyl-(1→3)-O-β-D-galactopyranosyl-(1→4)-O-β-D-glucopyranosyl-(1→4)-β-D-glucopyranosyl-(1→4)]-O-L-glycero-α-D-manno-heptopyranosyl-(1→5)-3-deoxy- (9CI)
MF C70 H116 N2 O56
CI IDS

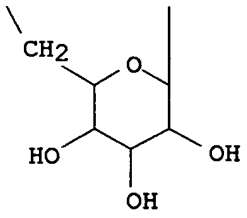
CM 1



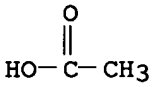






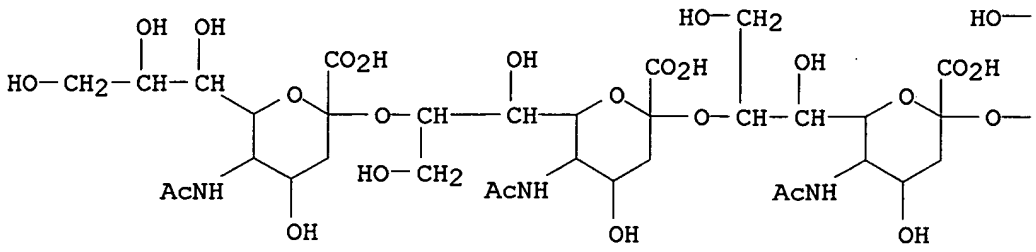


CM 2

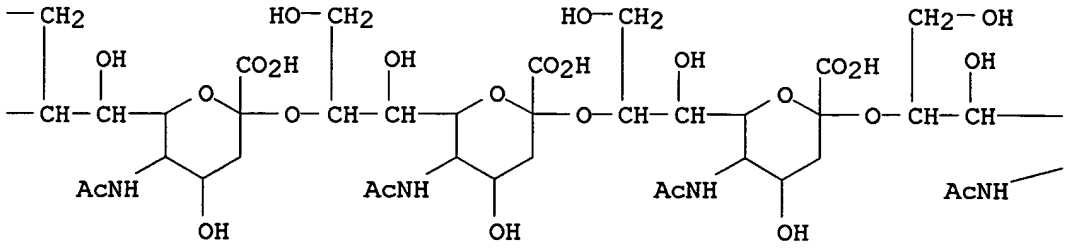


L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Neuraminic acid, O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-O-(N-acetyl-α-neuraminosyl)-(2→8)-N-acetyl- (9CI)
MF C132 H206 N12 O97

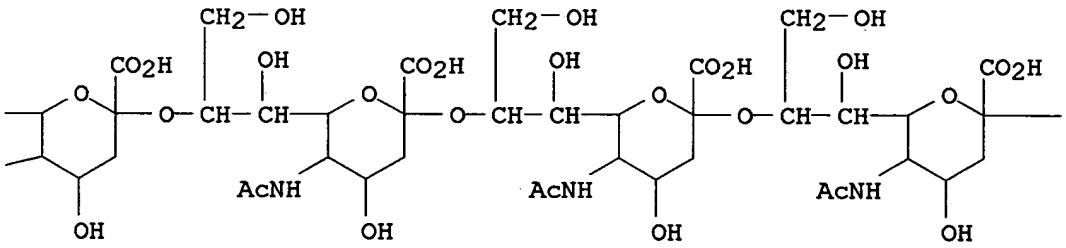
PAGE 1-A



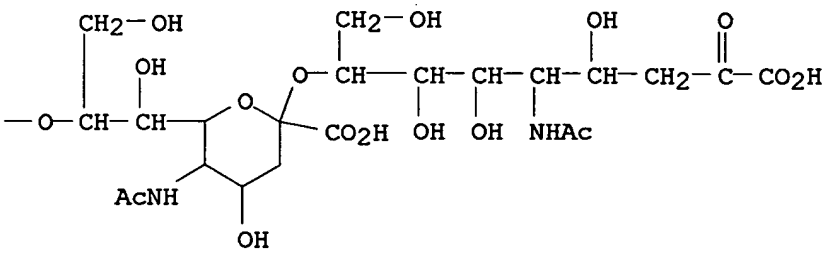
PAGE 1-B



PAGE 1-C



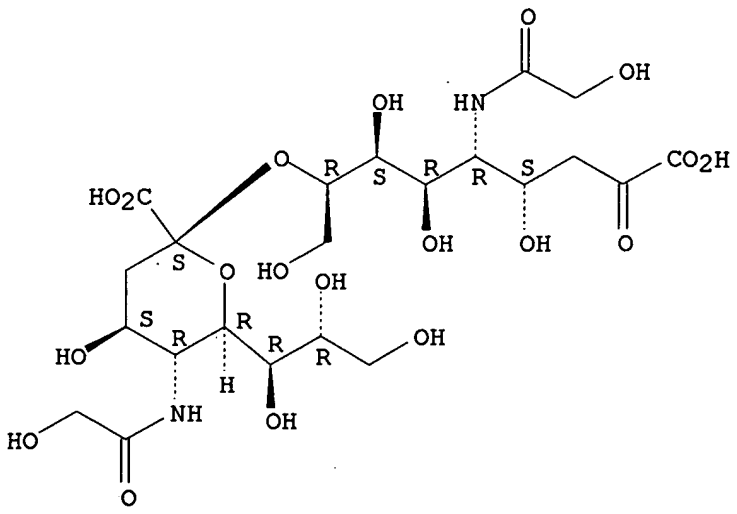
PAGE 1-D



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Neuraminic acid, N-(hydroxyacetyl)-8-O-[N-(hydroxyacetyl)-α-neuraminosyl]- (9CI)
MF C22 H36 N2 O19

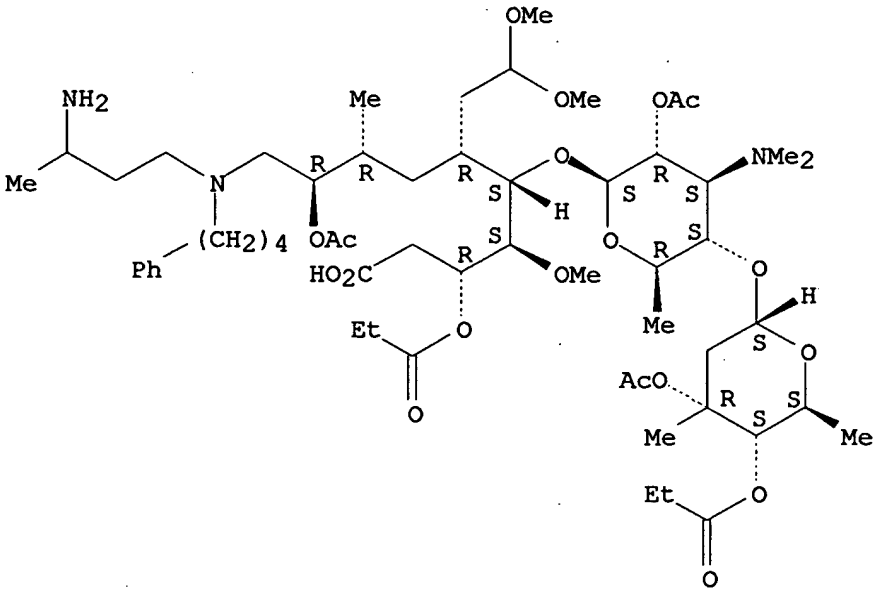
Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN L-erythro-L-gluco-Deconic acid, O-3-O-acetyl-2,6-dideoxy-3-C-methyl-4-O-(1-oxopropyl)-α-L-ribo-hexopyranosyl-(1→4)-O-2-O-acetyl-3,6-dideoxy-3-(dimethylamino)-β-D-glucopyranosyl-(1→5)-10-[(3-aminobutyl)(4-phenylbutyl)amino]-2,6,7,8,10-pentadeoxy-6-(2,2-dimethoxyethyl)-8-methyl-4-O-methyl-, 9-acetate 3-propanoate (9CI)
MF C57 H95 N3 O19

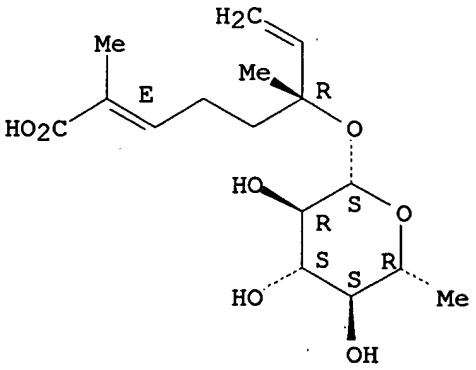
Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9  34 ANSWERS  REGISTRY  COPYRIGHT 2006 ACS on STN
IN  2,7-Octadienoic acid, 6-[(6-deoxy-β-D-glucopyranosyl)oxy]-2,6-dimethyl-, (2E,6R)- (9CI)
MF  C16 H26 O7

Absolute stereochemistry.  Rotation (-).
Double bond geometry as shown.

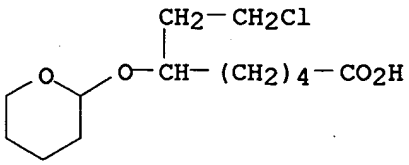



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

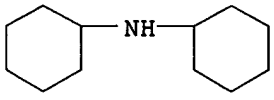
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L9  34 ANSWERS  REGISTRY  COPYRIGHT 2006 ACS on STN
IN  Octanoic acid, 8-chloro-6-[(tetrahydro-2H-pyran-2-yl)oxy]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF  C13 H23 Cl O4 . C12 H23 N

CM  1

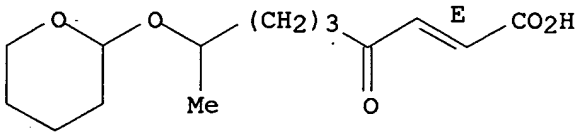



CM  2




L9  34 ANSWERS  REGISTRY  COPYRIGHT 2006 ACS on STN
IN  2-Nonenoic acid, 4-oxo-8-[(tetrahydro-2H-pyran-2-yl)oxy]-, (E)- (9CI)
MF  C14 H22 O5

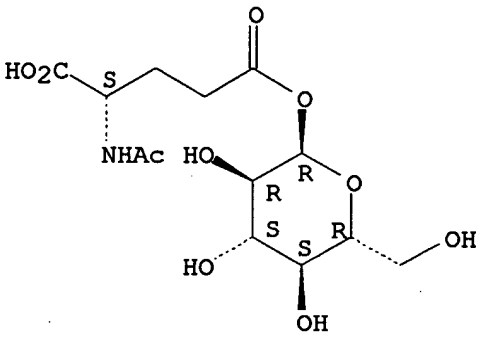
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN L-Glutamic acid, N-acetyl-, 5-α-D-glucopyranosyl ester (9CI)
MF C13 H21 N O10

Absolute stereochemistry.

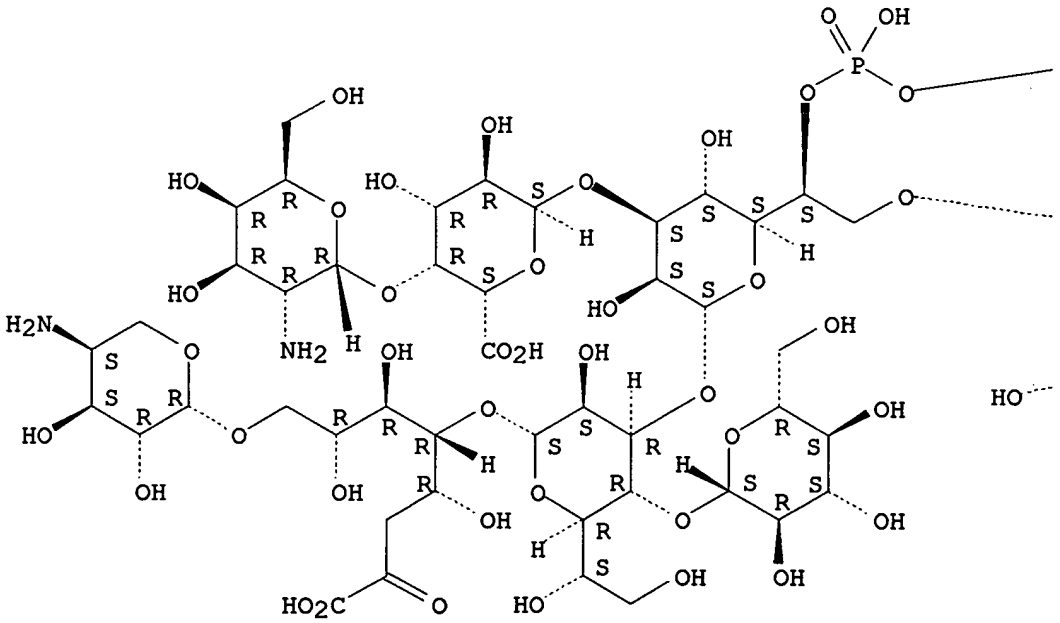


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

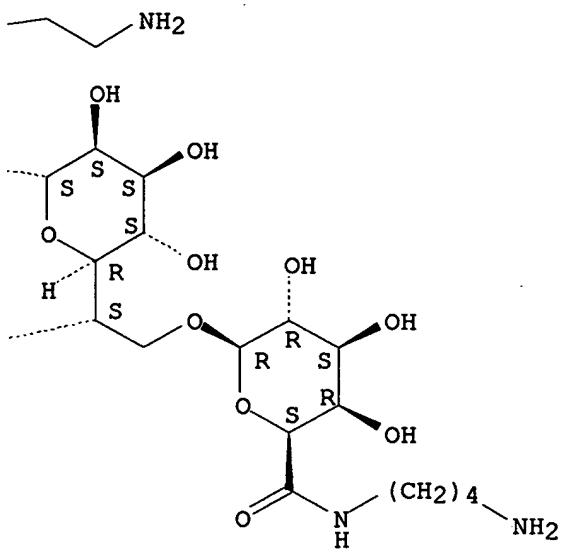
L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-manno-2-Octulosonic acid, O-[N-(4-aminobutyl)-β-D-galactopyranuronamidosyl]-(1→7)-O-L-glycero-α-D-manno-heptopyranosyl-(1→7)-O-[O-2-amino-2-deoxy-α-D-galactopyranosyl-(1→4)-α-D-galactopyranuronosyl-(1→3)]-O-6-O-[(2-aminoethoxy)hydroxyphosphinyl]-L-glycero-α-D-manno-heptopyranosyl-(1→3)-O-[β-D-glucopyranosyl-(1→4)]-O-L-glycero-α-D-manno-heptopyranosyl-(1→5)-O-[4-amino-4-deoxy-β-L-arabinopyranosyl-(1→8)]-3-deoxy- (9CI)
MF C64 H112 N5 O52 P

Absolute stereochemistry.

PAGE 1-A



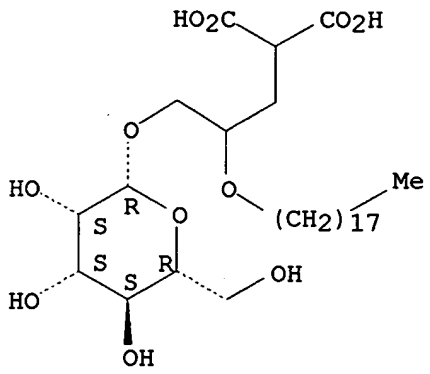
PAGE 1-B



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedioic acid, [3-(β-D-mannopyranosyloxy)-2-(octadecyloxy)propyl]- (9CI)
MF C30 H56 O11

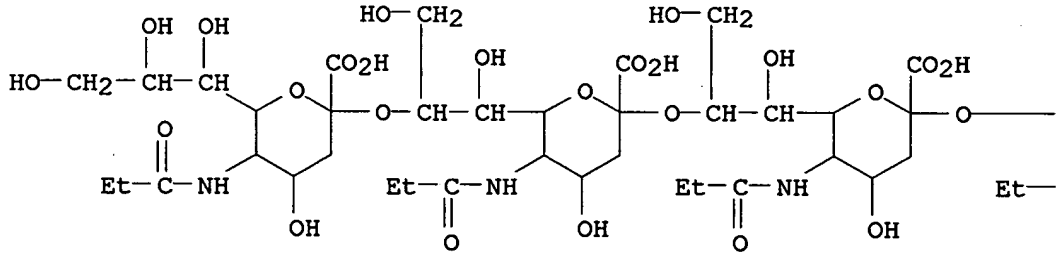
Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Neuraminic acid, O-[N-(1-oxopropyl)-α-neuraminosyl]-(2→8)-O-[N-(1-oxopropyl)-α-neuraminosyl]-(2→8)-O-[N-(1-oxopropyl)-α-neuraminosyl]-(2→8)-O-[N-(1-oxopropyl)-α-neuraminosyl]-(2→8)-O-[N-(1-oxopropyl)-α-neuraminosyl]-(2→8)-N-(1-oxopropyl)- (9CI)
MF C72 H116 N6 O49

PAGE 1-A



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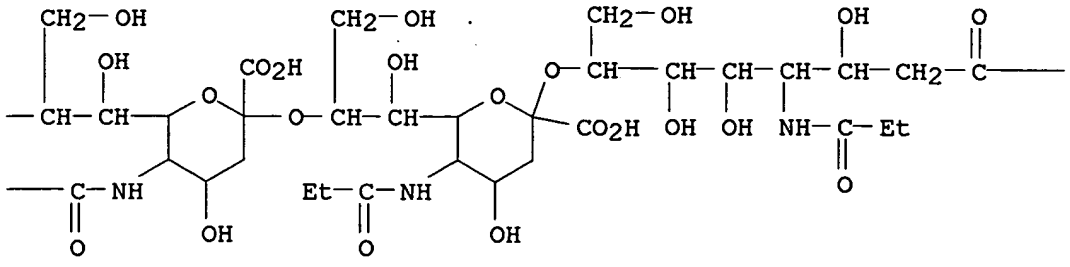
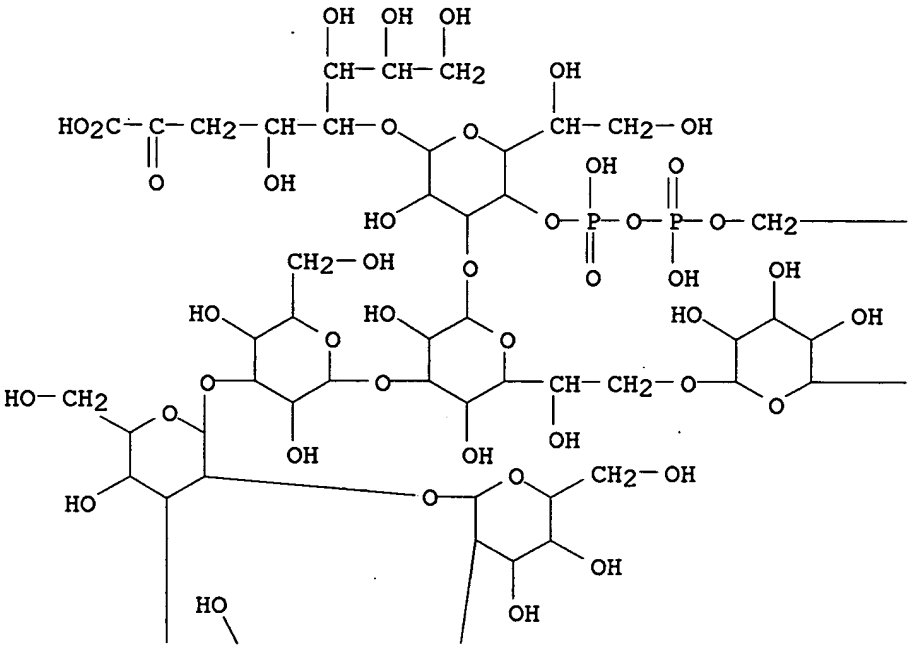


— $CO_2H$

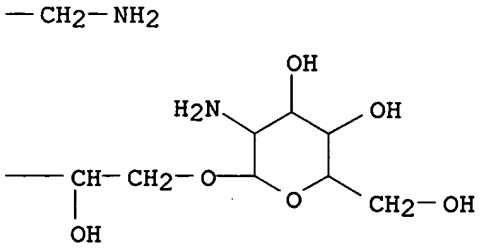
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-manno-2-Octulosonic acid, O-2-(acetylamino)-2-deoxy-α-L-altropyranuronosyl-(1→3)-O-2-(acetylamino)-4-amino-2,4,6-trideoxy-β-D-galactopyranosyl-(1→3)-O-β-D-glucopyranosyl-(1→3)-O-[O-α-D-galactopyranosyl-(1→2)-α-D-galactopyranosyl-(1→2)]-O-α-D-glucopyranosyl-(1→3)-O-α-D-glucopyranosyl-(1→3)-O-[O-2-amino-2-deoxy-α-D-glucopyranosyl-(1→7)-L-glycero-α-D-manno-heptopyranosyl-(1→7)]-O-L-glycero-α-D-manno-heptopyranosyl-(1→3)-O-4-O-(6-amino-1,3-dihydroxy-1,3-dioxido-2,4-dioxa-1,3-diphosphahex-1-yl)-L-glycero-α-D-manno-heptopyranosyl-(1→5)-3-deoxy- (9CI)
MF C83 H143 N5 O70 P2

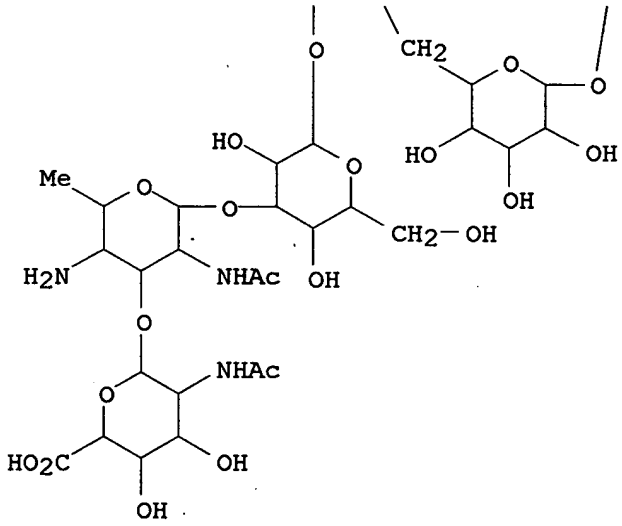
PAGE 1-A



PAGE 1-B

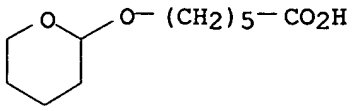


PAGE 2-A



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Hexanoic acid, 6-[(tetrahydro-2H-pyran-2-yl)oxy]- (8CI, 9CI)
MF C11 H20 O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

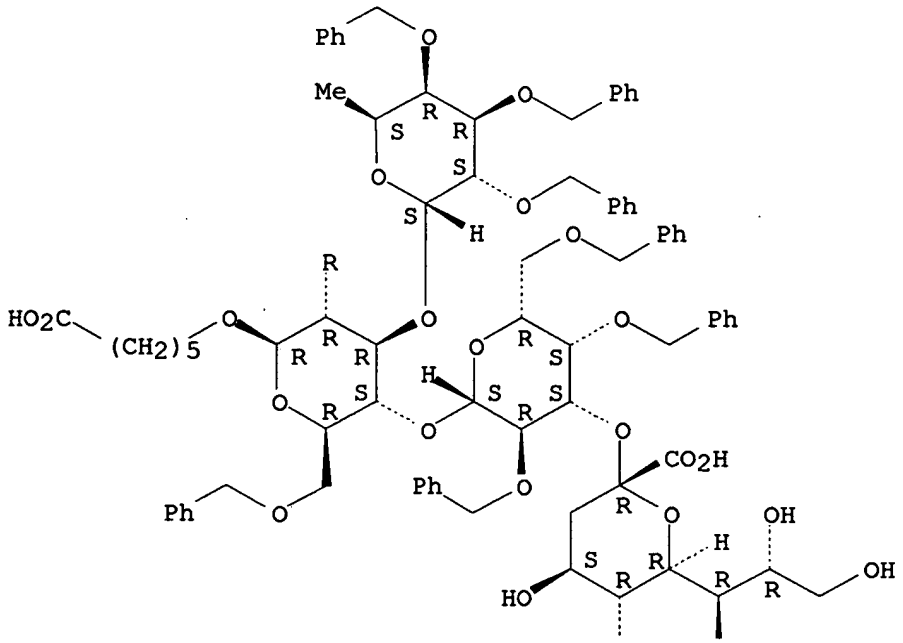
L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Hexanoic acid, 6-[[O-(N-acetyl-β-neuraminosyl)-(2→3)-O-2,4,6-tris-O-(phenylmethyl)-β-D-galactopyranosyl-(1→4)-O-[6-deoxy-2,3,4-tris-O-(phenylmethyl)-α-L-galactopyranosyl-(1→3)]-2-[(2-carboxybenzoyl)amino]-2-deoxy-6-O-(phenylmethyl)-β-D-glucopyranosyl]oxy]- (9CI)

MF C92 H106 N2 O27

Absolute stereochemistry. Rotation (-).

PAGE 1-A



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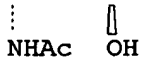
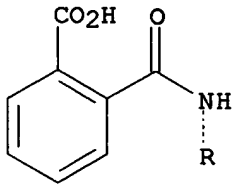




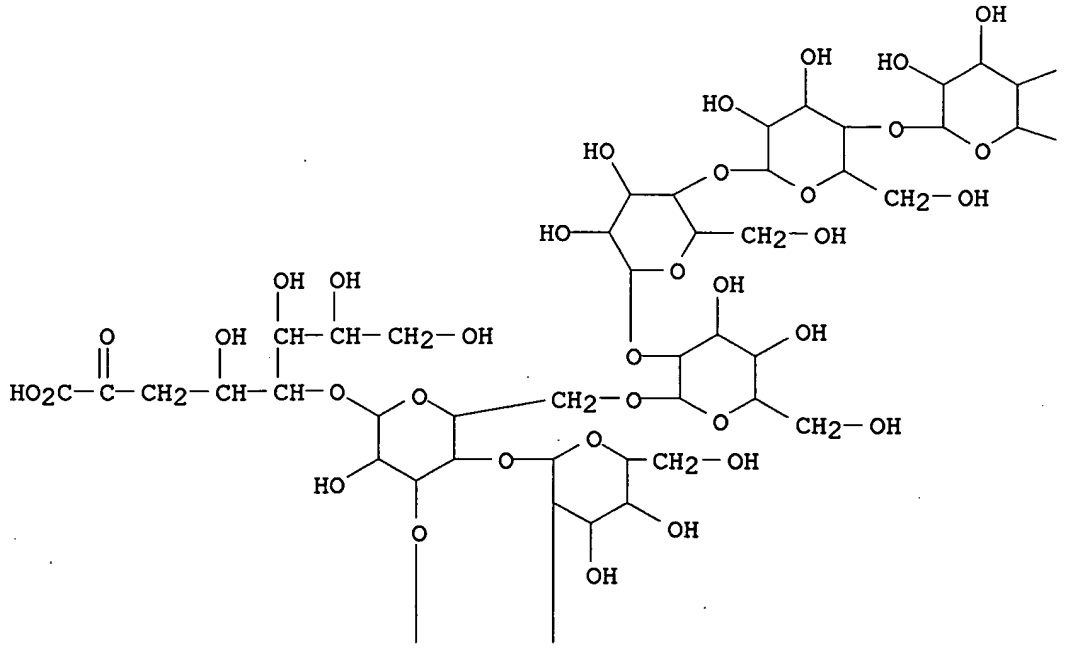
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

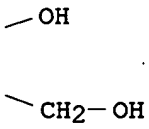
IN D-manno-2-Octulosonic acid, O-β-D-galactopyranosyl-(1→4)-O-2-(acetylamino)-2-deoxy-α-D-glucopyranosyl-(1→2)-O-β-D-glucopyranosyl-(1→4)-O-[O-α-D-galactopyranosyl-(1→4)-O-β-D-galactopyranosyl-(1→4)-O-α-D-glucopyranosyl-(1→2)-β-D-glucopyranosyl-(1→6)]-O-[β-D-glucopyranosyl-(1→3)]-O-α-D-glucopyranosyl-(1→5)-3-

deoxy- (9CI)
MF C64 H107 N O53

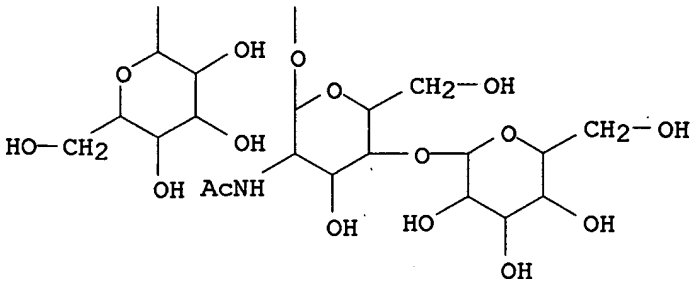
PAGE 1-A



PAGE 1-B



PAGE 2-A

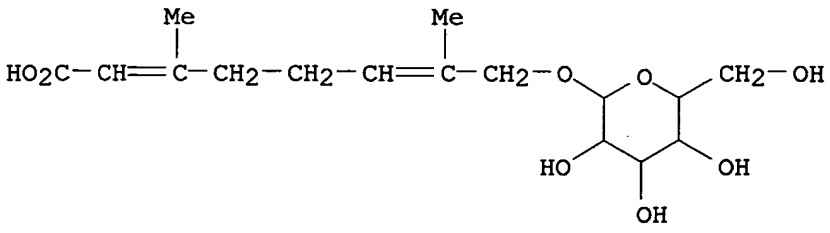


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L9 34 ANSWERS REGISTRY 

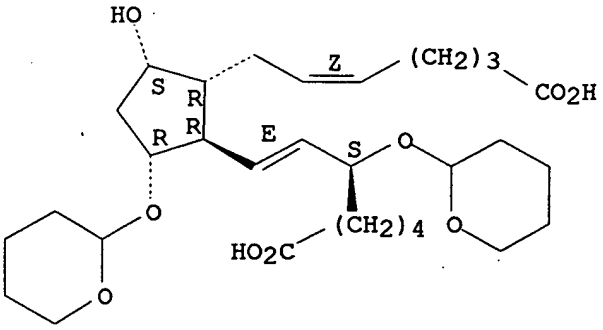
IN 2,6-Octadienoic acid, 8-(β-D-glucopyranosyloxy)-3,7-dimethyl-, (E,E)- (9CI)
MF C16 H26 O8



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Prosta-5,13-diene-1,20-dioic acid, 9-hydroxy-11,15-bis[(tetrahydro-2H-pyran-2-yl)oxy]-, (5Z,9α,11α,13E,15S)-(±)- (9CI)
MF C30 H48 O9

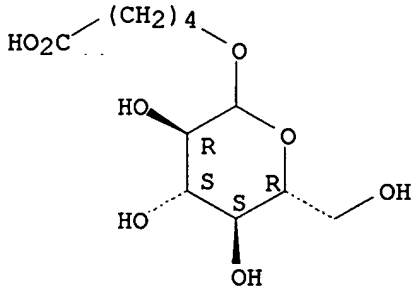
Relative stereochemistry.
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L9 34 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Valeric acid, 5-(glucopyranosyloxy)- (8CI)
MF C11 H20 O8

Relative stereochemistry.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 7.04 | 47.64 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -2.25 |

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:18:48 ON 30 NOV 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 13:21:12 ON 30 NOV 2006
FILE 'REGISTRY' ENTERED AT 13:21:12 ON 30 NOV 2006


| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 7.04 | 47.64 |

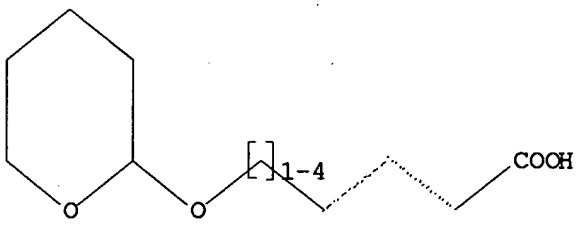
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -2.25 |

=>
Uploading c:\documents and settings\pzucker\my documents\examination auxillary files\10025947\10025947 refined1 st stab 8.6.06

L10 STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS

L10 STR




Structure attributes must be viewed using STN Express query preparation.

=> search l10 sss sam
SAMPLE SEARCH INITIATED 13:22:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 869 TO ITERATE

100.0% PROCESSED 869 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 15612 TO 19148
PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10

=> search l10 sss full
FULL SEARCH INITIATED 13:22:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 16583 TO ITERATE

100.0% PROCESSED 16583 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L12 0 SEA SSS FUL L10

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 174.42 | 215.02 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -2.25 |

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:22:24 ON 30 NOV 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 13:31:50 ON 30 NOV 2006
FILE 'REGISTRY' ENTERED AT 13:31:50 ON 30 NOV 2006

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 174.42 | 215.02 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -2.25 |

```
=> d hsi
L12 HAS NO ANSWERS
'HSI ' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains
          data.  (Default)
SIM ----- Structure IMage.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
          data.
SDA ----- All Structure DAta (image, attributes, connection table and
          map table if it contains data).
NOS ----- NO Structure data.
ENTER STRUCTURE FORMAT (SIM), NOS:d his
'D HIS' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains
          data.  (Default)
SIM ----- Structure IMage.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
          data.
SDA ----- All Structure DAta (image, attributes, connection table and
          map table if it contains data).
NOS ----- NO Structure data.
ENTER STRUCTURE FORMAT (SIM), NOS:end

=> d his

     (FILE 'HOME' ENTERED AT 11:12:19 ON 30 NOV 2006)

     FILE 'REGISTRY' ENTERED AT 11:12:27 ON 30 NOV 2006
L1             STRUCTURE UPLOADED
L2          23 SEARCH L1 SSS SAM
L3             STRUCTURE UPLOADED
L4           9 SEARCH L3 SSS SAM
               E HEXANOIC ACID, 6-[(1-METHYL-2-PHENYL-1H-BENZIMIDAZOL-6-YL)OXY
               E HEXANOIC ACID, 6-((1-METHYL-2-PHENYL-1H-BENZIMIDAZOL-6-YL)OXY
               E 4-PHENYL-2-BUTYNOIC ACID/CN
L5           1 E3

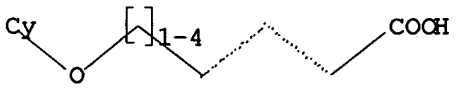
     FILE 'CAPLUS' ENTERED AT 12:51:00 ON 30 NOV 2006
L6           8 L05
L7           3 L5

     FILE 'REGISTRY' ENTERED AT 13:09:25 ON 30 NOV 2006
               E 5-TETRAHYDROPYRANYLOXY-2-PENTENOIC ACID/CN
L8             STRUCTURE UPLOADED
L9          34 SEARCH L8 SSS SAM
L10            STRUCTURE UPLOADED
L11          0 SEARCH L10 SSS SAM
L12          0 SEARCH L10 SSS FULL
```

=>
Uploading c:\documents and settings\pzucker\my documents\examination auxillary files\10025947\10025947 2nd stab 8.6.06

L13 STRUCTURE UPLOADED

=> d l13
L13 HAS NO ANSWERS
L13 STR




Structure attributes must be viewed using STN Express query preparation.

=> search l13 sss sam
SAMPLE SEARCH INITIATED 13:32:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 66711 TO ITERATE

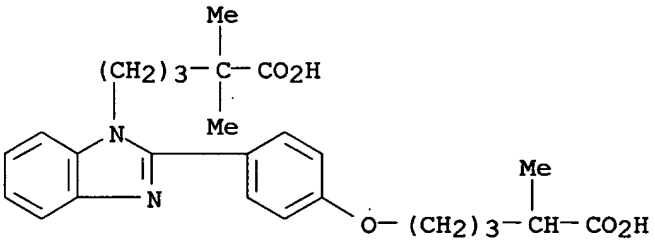
3.0% PROCESSED 2000 ITERATIONS 8 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1318840 TO 1349600
PROJECTED ANSWERS: 4356 TO 6316

L14 8 SEA SSS SAM L13

=> d scan

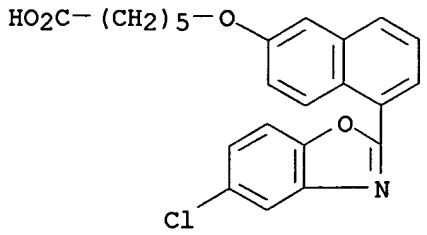
L14 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1H-Benzimidazole-1-pentanoic acid, 2-[4-[(4-carboxypentyl)oxy]phenyl]-α,α-dimethyl- (9CI)
MF C26 H32 N2 O5




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

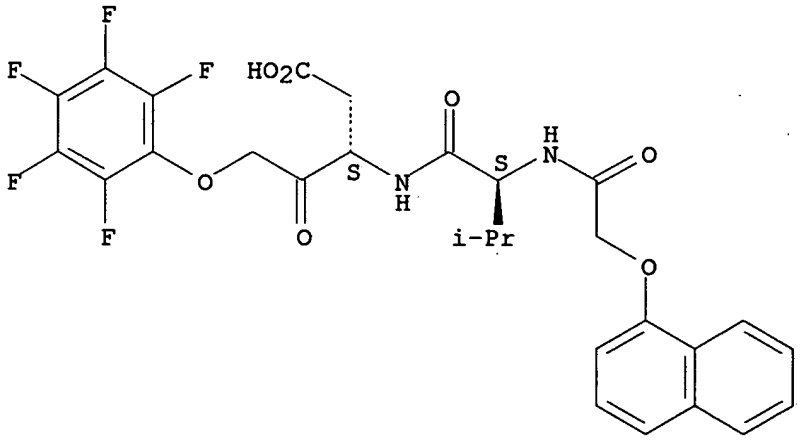
L14 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Hexanoic acid, 6-[[5-(5-chloro-2-benzoxazolyl)-2-naphthalenyl]oxy]-, sodium salt (9CI)
MF C23 H20 Cl N O4 . Na



● Na

L14 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Pentanoic acid, 3-[[(2S)-3-methyl-2-[[(1-naphthalenyloxy)acetyl]amino]-1-oxobutyl]amino]-4-oxo-5-(pentafluorophenoxy)-, (3S)- (9CI)
MF C28 H25 F5 N2 O7

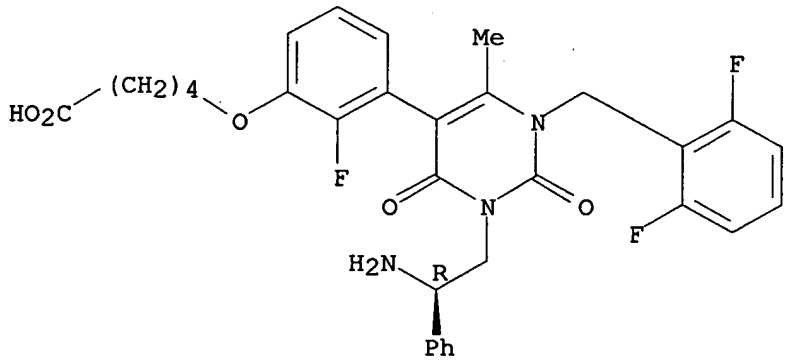
Absolute stereochemistry.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

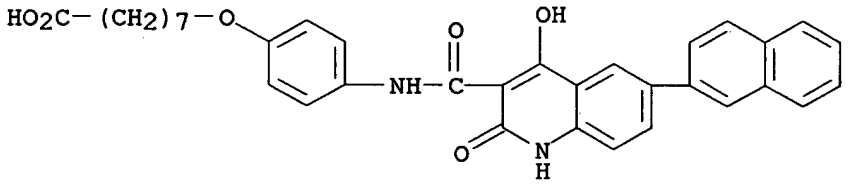
L14 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Pentanoic acid, 5-[3-[3-[(2R)-2-amino-2-phenylethyl]-1-[(2,6-difluorophenyl)methyl]-1,2,3,4-tetrahydro-6-methyl-2,4-dioxo-5-pyrimidinyl]-2-fluorophenoxy]- (9CI)
MF C31 H30 F3 N3 O5
CI COM

Absolute stereochemistry.



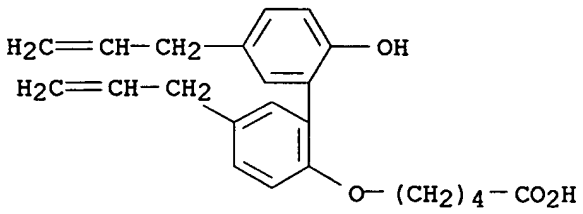
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L14 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Octanoic acid, 8-[4-[[[1,2-dihydro-4-hydroxy-6-(2-naphthalenyl)-2-oxo-3-quinolinyl]carbonyl]amino]phenoxy]- (9CI)
MF C34 H32 N2 O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

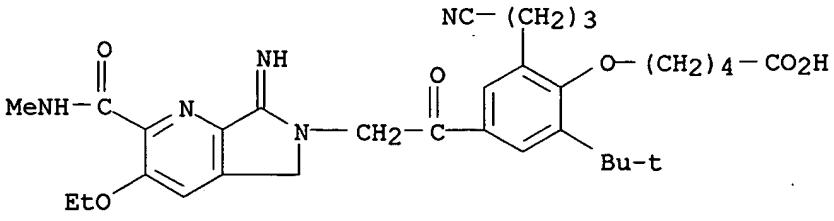
L14 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Pentanoic acid, 5-[(2'-hydroxy-5,5'-di-2-propenyl[1,1'-biphenyl]-2-yl)oxy]- (9CI)
MF C23 H26 O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

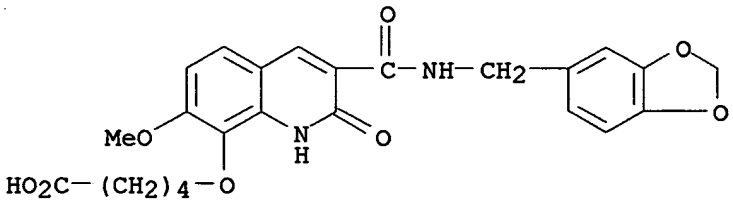
L14 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Pentanoic acid, 5-[2-(3-cyanopropyl)-6-(1,1-dimethylethyl)-4-[[3-ethoxy-5,7-dihydro-7-imino-2-[(methylamino)carbonyl]-6H-pyrrolo[3,4-b]pyridin-6-

yl]acetyl]phenoxy]- (9CI)
MF C32 H41 N5 O6
CI COM



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L14 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Pentanoic acid, 5-[[3-[[(1,3-benzodioxol-5-ylmethyl)amino]carbonyl]-1,2-dihydro-7-methoxy-2-oxo-8-quinolinyl]oxy]- (9CI)
MF C24 H24 N2 O8



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 175.30 | 215.90 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -2.25 |

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:33:19 ON 30 NOV 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

```
PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 13:37:34 ON 30 NOV 2006
FILE 'REGISTRY' ENTERED AT 13:37:34 ON 30 NOV 2006
COPYRIGHT (C) 2006 American Chemical Society (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     175.74     216.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -2.25

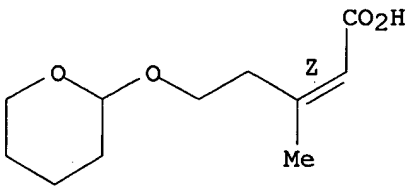
=> e 2-Pentenoic acid, 3-methyl-5-((tetrahydro-2H-pyran-2-yl)oxy)-, (Z)-/cn
E1            1      2-PENTENOIC ACID, 3-METHYL-5-((4R,4AR,5S,6R,8AS)-3,4,4A,5,6,
                     7,8,8A-OCTAHYDRO-4-HYDROXY-5-(HYDROXYMETHYL)-2,5,8A-TRIMETHY
                     L-6-((1-OXOPENTYL)OXY)-1-NAPHTHALENYL)-, (2E)-/CN
E2            1      2-PENTENOIC ACID, 3-METHYL-5-((4R,4AR,5S,6R,8AS)-3,4,4A,5,6,
                     7,8,8A-OCTAHYDRO-5-(HYDROXYMETHYL)-2,5,8A-TRIMETHYL-4,6-BIS(
                     (1-OXOPENTYL)OXY)-1-NAPHTHALENYL)-, (2E)-/CN
E3            1 --> 2-PENTENOIC ACID, 3-METHYL-5-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)
                     -, (Z)-/CN
E4            1      2-PENTENOIC ACID, 3-METHYL-5-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)
                     -, METHYL ESTER, (2Z)-/CN
E5            1      2-PENTENOIC ACID, 3-METHYL-5-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)
                     -, METHYL ESTER, (E)-/CN
E6            1      2-PENTENOIC ACID, 3-METHYL-5-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)
                     -, METHYL ESTER, (Z)-/CN
E7            1      2-PENTENOIC ACID, 3-METHYL-5-(1,2,3,4,4A,5,6,7-OCTAHYDRO-1,2
                     ,5,5-TETRAMETHYL-1-NAPHTHALENYL)-, (1S-(1A(E),2B,
                     4AB))-/CN
E8            1      2-PENTENOIC ACID, 3-METHYL-5-(1,2,3,4,4A,5,6,7-OCTAHYDRO-1,2
                     ,5,5-TETRAMETHYL-7-OXO-1-NAPHTHALENYL)-, (1R-(1A(E),2.
                     ALPHA.,4AA))-/CN
E9            1      2-PENTENOIC ACID, 3-METHYL-5-(1,2,3,4,4A,5,6,7-OCTAHYDRO-1,2
                     ,5,5-TETRAMETHYL-7-OXO-1-NAPHTHALENYL)-, METHYL ESTER, (1R-(
                     1A(E),2A,4AA))-/CN
E10           1      2-PENTENOIC ACID, 3-METHYL-5-(1,2,3,4,4A,5,6,7-OCTAHYDRO-7-H
                     YDROXY-1,2,5,5-TETRAMETHYL-1-NAPHTHALENYL)-, METHYL ESTER, (
                     1R-(1A(E),2A,4AA,7B))-/CN
E11           1      2-PENTENOIC ACID, 3-METHYL-5-(1,2,3,4,4A,5,8,8A-OCTAHYDRO-1,
                     2,4A,5-TETRAMETHYL-1-NAPHTHALENYL)-, METHYL ESTER/CN
E12           1      2-PENTENOIC ACID, 3-METHYL-5-(1,2,3,4,4A,5,8,8A-OCTAHYDRO-1,
                     2,4A-TRIMETHYL-5-METHYLENE-1-NAPHTHALENYL)-, (1S-(1A(E
                     ),2B,4AB,8AA))-/CN

=> e3
L15           1 "2-PENTENOIC ACID, 3-METHYL-5-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-,
                (Z)-"/CN

=> d l15

L15  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   68420-71-3  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   2-Pentenoic acid, 3-methyl-5-[(tetrahydro-2H-pyran-2-yl)oxy]-, (Z)-
     (9CI)  (CA INDEX NAME)
FS   STEREOSEARCH
MF   C11 H18 O4
LC   STN Files:   BEILSTEIN*, CA, CAPLUS
         (*File contains numerically searchable property data)
```

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 182.84 | 223.44 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -2.25 |

FILE 'CAPLUS' ENTERED AT 13:38:23 ON 30 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE COVERS 1907 - 30 Nov 2006 VOL 145 ISS 23
FILE LAST UPDATED: 29 Nov 2006 (20061129/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

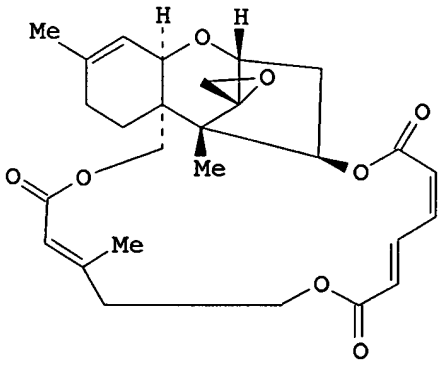
http://www.cas.org/infopolicy.html

=> l15
L16 1 L15

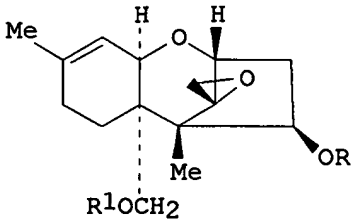
=> d l16 ti fbib abs

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
TI Verrucarins and roridins. 35. Partial synthesis of tetrahydroverrucarin J
AN 1979:39055 CAPLUS
DN 90:39055
TI Verrucarins and roridins. 35. Partial synthesis of tetrahydroverrucarin J

AU Breitenstein, Werner; Tamm, Christoph
CS Inst. Org. Chem., Univ. Basel, Basel, Switz.
SO Helvetica Chimica Acta (1978), 61(6), 1975-83
CODEN: HCACAV; ISSN: 0018-019X
DT Journal
LA German
GI




I




II

AB Tetrahydroverrucarin (I) was prepared treating verrucarol monoacetate (II, R = Ac, R1 = H) with QOH [Q = 3-methyl-5-(tetrahydro-2H-pyran-2-yloxy)-2-pentanoyl], hydrolyzing II (R = Ac, R1 = Q), condensing II (R = H, R1 = Q) with HOQ1 [Q1 = p-BrC6H4CO2CO(CH2)4CO], hydrolyzing II (R = Q1,R1 = Q), and cyclizing II (R = R1 = H) in O-free xylene containing di-2-pyridyl disulfide and Ph3P.

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 4.12 | 227.56 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -0.75 | -3.00 |

FILE 'REGISTRY' ENTERED AT 13:40:04 ON 30 NOV 2006


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 NOV 2006 HIGHEST RN 914111-87-8
DICTIONARY FILE UPDATES: 28 NOV 2006 HIGHEST RN 914111-87-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information

on property searching in REGISTRY, refer to:

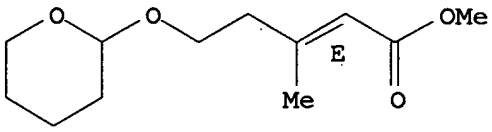
http://www.cas.org/ONLINE/UG/regprops.html

=> e5
L17 1 "2-PENTENOIC ACID, 3-METHYL-5-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL ESTER, (E)-"/CN

=> d l17

L17 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 35066-34-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2-Pentenoic acid, 3-methyl-5-[(tetrahydro-2H-pyran-2-yl)oxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Methyl trans-5-(tetrahydro-2-pyranyloxy)-3-methyl-2-pentenoate
FS STEREOSEARCH
MF C12 H20 O4
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 7.10 | 234.66 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -3.00 |

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FILE COVERS 1907 - 30 Nov 2006 VOL 145 ISS 23
FILE LAST UPDATED: 29 Nov 2006 (20061129/ED)

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=> d l17 1-3 ti fbib abs
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> l17
L18 3 L17

=> d l18 1-3 ti fbib abs

L18 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI PtCl2-Catalyzed Transannular Cycloisomerization of 1,5-Enynes: A New Efficient Regio- and Stereocontrolled Access to Tricyclic Derivatives
AN 2004:769838 CAPLUS
DN 141:411094
TI PtCl2-Catalyzed Transannular Cycloisomerization of 1,5-Enynes: A New Efficient Regio- and Stereocontrolled Access to Tricyclic Derivatives
AU Blaszykowski, Christophe; Harrak, Youssef; Goncalves, Maria-Helena; Cloarec, Jean-Manuel; Dhimane, Anne-Lise; Fensterbank, Louis; Malacria, Max
CS Laboratoire de Chimie Organique, Universite Pierre et Marie Curie, Paris, 75252, Fr.
SO Organic Letters (2004), 6(21), 3771-3774
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 141:411094
AB Transannular PtCl2-catalyzed cycloisomerizations open a new route to cyclopropanoic tricyclic systems. Ketones A or C were efficiently prepared from the same cycloundec-5-en-1-yne precursor B, depending on the substituent at the propargylic position (either benzoate or methoxy).
RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI Stereoselective synthesis of the macrocycle segment of verrucarin J
AN 1982:103939 CAPLUS
DN 96:103939
TI Stereoselective synthesis of the macrocycle segment of verrucarin J
AU White, James D.; Carter, J. Paul; Kezar, Hollis S., III
CS Dep. Chem., Oregon State Univ., Corvallis, OR, 97331, USA
SO Journal of Organic Chemistry (1982), 47(6), 929-32
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
AB The ester acid, MeO2CCH:CMeCH2CH2O2C(CH:CH)2CO2H (2Z,7E,9Z-I), corresponding to the chain of verrucarin J, has been synthesized from HOCH2CH2COMe, whose tetrahydropyranyl ether was converted via a Wittig reaction to MeO2CCH:CMeCH2CH2OH. A Horner-Emmons condensation of MeO2CCH:CMeCH2CH2O2CCH2P(O)(OMe)2 derived from MeO2CCH:CMeCH2CH2Br and malonaldehydic acid gave 80% 2E,7E,9Z-I. A similar sequence from HOCH2CH2COMe via anhydromevalonolactone, gave the (Z)-phosphonate, which underwent a Horner-Emmons reaction to yield 2Z,7E,9Z-I. Comparison of 1H NMR spectra of I with data reported for verrucarin J confirms the revised 2E geometry assigned to the natural product.

L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI Metabolic products of microorganisms. 101. Synthesis of trans-5-hydroxy-3-methyl-2-pentenoic acid (trans-Δ2-anhydromevalonic acid)
AN 1972:71960 CAPLUS
DN 76:71960
TI Metabolic products of microorganisms. 101. Synthesis of trans-5-hydroxy-3-methyl-2-pentenoic acid (trans-Δ2-anhydromevalonic acid)
AU Keller-Schierlein, W.; Widmer, J.; Maurer, B.
CS Org.-Chem. Lab., Eidg. Tech. Hochsch., Zurich, Switz.
SO Helvetica Chimica Acta (1972), 55(1), 198-205
CODEN: HCACAV; ISSN: 0018-019X
DT Journal
LA German
AB trans-Δ2-Anhydromevalonic acid (I) was prepared by treating 4-(tetrahydro-2-pyranyloxy)-2-butanone with Ph3P:CHCO2Me to give a mixture of mevalonic esters, which were separated after removal of the protective group and acetylation. Mild ammonolysis and alkaline saponification of trans-AcOCH2CH2CMe:CHCO2Me gave I. Condensation of AcOCH2CH2Ac with Ph3P:CHCO2Me gave Me 3-acetyl 4-methyl-3-cyclohexene-1-carboxylate, which on dehydration with S gave Me 3-acetyl-4-methylbenzoate.

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 14.20 | 248.86 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -2.25 | -5.25 |

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FILE COVERS 1907 - 30 Nov 2006 VOL 145 ISS 23
FILE LAST UPDATED: 29 Nov 2006 (20061129/ED)

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=> e 2-HexENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-/CN
REG1stRY INITIATED
Substance data EXPAND from CAS REGISTRY in progress...

```
E1            1      2-HEXENOIC ACID, 6-((PHENYLMETHYL)((TRIMETHYLSILYL)METHYL)AM
                     INO)-, METHYL ESTER, (E)-/CN
E2            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2-FURANYL)OXY)-, METHYL ESTE
                     R, (E)-/CN
E3            0 --> 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-/CN
E4            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                     STER/CN
E5            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                     STER, (2E)-/CN
E6            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                     STER, (E)-/CN
E7            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                     ESTER, (E)-/CN
E8            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                     ESTER, (Z)-/CN
E9            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                     RIMETHYLSTANNYL)-, METHYL ESTER, (E)-/CN
E10           1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                     RIMETHYLSTANNYL)-, METHYL ESTER, (Z)-/CN
E11           1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-(TRIBUT
                     YLSTANNYL)-3-(TRIMETHYLGERMYL)-, METHYL ESTER, (E)-/CN
E12           1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-3-(TRIBUT
                     YLSTANNYL)-2-(TRIMETHYLGERMYL)-, METHYL ESTER, (Z)-/CN


=> e e1
   REG1stRY INITIATED
Substance data EXPAND from CAS REGISTRY in progress...


E1            1      2-HEXENOIC ACID, 6-((O-2,3,4-TRI-O-ACETYL-6-DEOXY-A-L-
                     GALACTOPYRANOSYL-(1.FWDARW.3)-O-(O-2,3,4-TRI-O-ACETYL-6-DEOX
                     Y-A-L-GALACTOPYRANOSYL-(1.FWDARW.2)-3,4,6-TRI-O-ACETYL
                     -B-D-GALACTOPYR/CN
E2            1      2-HEXENOIC ACID, 6-((PHENYLMETHYL)((TRIMETHYLSILYL)METHYL)AM
                     INO)-, METHYL ESTER/CN
E3            1 --> 2-HEXENOIC ACID, 6-((PHENYLMETHYL)((TRIMETHYLSILYL)METHYL)AM
                     INO)-, METHYL ESTER, (E)-/CN
E4            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2-FURANYL)OXY)-, METHYL ESTE
                     R, (E)-/CN
E5            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                     STER/CN
E6            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                     STER, (2E)-/CN
E7            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                     STER, (E)-/CN
E8            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                     ESTER, (E)-/CN
E9            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                     ESTER, (Z)-/CN
E10           1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                     RIMETHYLSTANNYL)-, METHYL ESTER, (E)-/CN
E11           1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                     RIMETHYLSTANNYL)-, METHYL ESTER, (Z)-/CN
E12           1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-(TRIBUT
                     YLSTANNYL)-3-(TRIMETHYLGERMYL)-, METHYL ESTER, (E)-/CN


=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
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FULL ESTIMATED COST 0.46 251.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION

CA SUBSCRIBER PRICE 0.00 -5.25

FILE 'REGISTRY' ENTERED AT 13:49:52 ON 30 NOV 2006
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 NOV 2006 HIGHEST RN 914337-13-6
DICTIONARY FILE UPDATES: 29 NOV 2006 HIGHEST RN 914337-13-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> e e12
E1 1 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(TRIMETHYLSTANNYL)-, METHYL ESTER, (E)-/CN
E2 1 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(TRIMETHYLSTANNYL)-, METHYL ESTER, (Z)-/CN
E3 1 --> 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-(TRIBUTYLSTANNYL)-3-(TRIMETHYLGERMYL)-, METHYL ESTER, (E)-/CN
E4 1 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-3-(TRIBUTYLSTANNYL)-2-(TRIMETHYLGERMYL)-, METHYL ESTER, (Z)-/CN
E5 1 2-HEXENOIC ACID, 6-((TRIS(1,1-DIMETHYLETHYL)SILYL)OXY)-, ETHYL ESTER/CN
E6 1 2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-2-HYDROXY-4,6-DIOXO-/CN
E7 1 2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-2-HYDROXY-4,6-DIOXO-, METHYL ESTER/CN
E8 1 2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-3-METHYL-, METHYL ESTER/CN
E9 1 2-HEXENOIC ACID, 6-(1,2-DIHYDRO-4-HYDROXY-2-OXO-1-PHENYL-3-QUINOLINYL)-4,6-DIOXO-, ETHYL ESTER/CN
E10 1 2-HEXENOIC ACID, 6-(1,2-DIHYDROXYCYCLOPENTYL)-3-(1-PYRROLIDINYL)-, METHYL ESTER/CN
E11 1 2-HEXENOIC ACID, 6-(1,3,3A,4,5,7A-HEXAHYDRO-6-METHYL-2H-INDEN-2-YLIDENE)-3-METHYL-, METHYL ESTER, (2(Z),3A,7A.ALPHA.)-/CN
E12 1 2-HEXENOIC ACID, 6-(1,3,3A,4,7,7A-HEXAHYDRO-1,3-DIOXO-4-ISOBENZOFURANYL)-, METHYL ESTER/CN

=> e e1
E1 1 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL ESTER, (E)-/CN
E2 1 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL ESTER, (Z)-/CN

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E3          1 --> 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                  RIMETHYLSTANNYL)-, METHYL ESTER, (E)-/CN
E4          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                  RIMETHYLSTANNYL)-, METHYL ESTER, (Z)-/CN
E5          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-(TRIBUT
                  YLSTANNYL)-3-(TRIMETHYLGERMYL)-, METHYL ESTER, (E)-/CN
E6          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-3-(TRIBUT
                  YLSTANNYL)-2-(TRIMETHYLGERMYL)-, METHYL ESTER, (Z)-/CN
E7          1     2-HEXENOIC ACID, 6-((TRIS(1,1-DIMETHYLETHYL)SILYL)OXY)-, ETH
                  YL ESTER/CN
E8          1     2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-2-HYDROXY-4,6-DIOXO-
                  /CN
E9          1     2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-2-HYDROXY-4,6-DIOXO-
                  , METHYL ESTER/CN
E10         1     2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-3-METHYL-, METHYL ES
                  TER/CN
E11         1     2-HEXENOIC ACID, 6-(1,2-DIHYDRO-4-HYDROXY-2-OXO-1-PHENYL-3-Q
                  UINOLINYL)-4,6-DIOXO-, ETHYL ESTER/CN
E12         1     2-HEXENOIC ACID, 6-(1,2-DIHYDROXYCYCLOPENTYL)-3-(1-PYRROLIDI
                  NYL)-, METHYL ESTER/CN

=> e e1
E1          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                  STER, (2E)-/CN
E2          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                  STER, (E)-/CN
E3          1 --> 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                  ESTER, (E)-/CN
E4          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                  ESTER, (Z)-/CN
E5          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                  RIMETHYLSTANNYL)-, METHYL ESTER, (E)-/CN
E6          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                  RIMETHYLSTANNYL)-, METHYL ESTER, (Z)-/CN
E7          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-(TRIBUT
                  YLSTANNYL)-3-(TRIMETHYLGERMYL)-, METHYL ESTER, (E)-/CN
E8          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-3-(TRIBUT
                  YLSTANNYL)-2-(TRIMETHYLGERMYL)-, METHYL ESTER, (Z)-/CN
E9          1     2-HEXENOIC ACID, 6-((TRIS(1,1-DIMETHYLETHYL)SILYL)OXY)-, ETH
                  YL ESTER/CN
E10         1     2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-2-HYDROXY-4,6-DIOXO-
                  /CN
E11         1     2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-2-HYDROXY-4,6-DIOXO-
                  , METHYL ESTER/CN
E12         1     2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-3-METHYL-, METHYL ES
                  TER/CN

=> e e1
E1          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2-FURANYL)OXY)-, METHYL ESTE
                  R, (E)-/CN
E2          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                  STER/CN
E3          1 --> 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                  STER, (2E)-/CN
E4          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                  STER, (E)-/CN
E5          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                  ESTER, (E)-/CN
E6          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                  ESTER, (Z)-/CN
E7          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                  RIMETHYLSTANNYL)-, METHYL ESTER, (E)-/CN
E8          1     2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
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                    RIMETHYLSTANNYL)-, METHYL ESTER, (Z)-/CN
E9          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-(TRIBUT
                    YLSTANNYL)-3-(TRIMETHYLGERMYL)-, METHYL ESTER, (E)-/CN
E10         1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-3-(TRIBUT
                    YLSTANNYL)-2-(TRIMETHYLGERMYL)-, METHYL ESTER, (Z)-/CN
E11         1       2-HEXENOIC ACID, 6-((TRIS(1,1-DIMETHYLETHYL)SILYL)OXY)-, ETH
                    YL ESTER/CN
E12         1       2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-2-HYDROXY-4,6-DIOXO-
                    /CN

=> e e1
E1          1       2-HEXENOIC ACID, 6-((PHENYLMETHYL)((TRIMETHYLSILYL)METHYL)AM
                    INO)-, METHYL ESTER/CN
E2          1       2-HEXENOIC ACID, 6-((PHENYLMETHYL)((TRIMETHYLSILYL)METHYL)AM
                    INO)-, METHYL ESTER, (E)-/CN
E3          1 --> 2-HEXENOIC ACID, 6-((TETRAHYDRO-2-FURANYL)OXY)-, METHYL ESTE
                    R, (E)-/CN
E4          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                    STER/CN
E5          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                    STER, (2E)-/CN
E6          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                    STER, (E)-/CN
E7          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                    ESTER, (E)-/CN
E8          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                    ESTER, (Z)-/CN
E9          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                    RIMETHYLSTANNYL)-, METHYL ESTER, (E)-/CN
E10         1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                    RIMETHYLSTANNYL)-, METHYL ESTER, (Z)-/CN
E11         1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-(TRIBUT
                    YLSTANNYL)-3-(TRIMETHYLGERMYL)-, METHYL ESTER, (E)-/CN
E12         1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-3-(TRIBUT
                    YLSTANNYL)-2-(TRIMETHYLGERMYL)-, METHYL ESTER, (Z)-/CN

=> e 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)/CN
E1          1       2-HEXENOIC ACID, 6-((PHENYLMETHYL)((TRIMETHYLSILYL)METHYL)AM
                    INO)-, METHYL ESTER, (E)-/CN
E2          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2-FURANYL)OXY)-, METHYL ESTE
                    R, (E)-/CN
E3          0 --> 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)/CN
E4          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                    STER/CN
E5          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                    STER, (2E)-/CN
E6          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                    STER, (E)-/CN
E7          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                    ESTER, (E)-/CN
E8          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                    ESTER, (Z)-/CN
E9          1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                    RIMETHYLSTANNYL)-, METHYL ESTER, (E)-/CN
E10         1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                    RIMETHYLSTANNYL)-, METHYL ESTER, (Z)-/CN
E11         1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-(TRIBUT
                    YLSTANNYL)-3-(TRIMETHYLGERMYL)-, METHYL ESTER, (E)-/CN
E12         1       2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-3-(TRIBUT
                    YLSTANNYL)-2-(TRIMETHYLGERMYL)-, METHYL ESTER, (Z)-/CN

=> e 2-HEptENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)/CN
E1          1       2-HEPTENOIC ACID, 7-((METHYLSULFONYL)OXY)-, METHYL ESTER/CN
```

```
E2          1     2-HEPTENOIC ACID, 7-((METHYLTHIO)THIOXOMETHOXY)-, ETHYL ESTE
                  R, (E)-/CN
E3          0 --> 2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)/CN
E4          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, 4-(1,3
                  -DIOXOLAN-2-YL)BUTYL ESTER, (E)-/CN
E5          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL
                  ESTER/CN
E6          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL
                  ESTER, (2E)-/CN
E7          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL
                  ESTER, (E)-/CN
E8          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL
                  ESTER, (E)-(±)-/CN
E9          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                   ESTER, (E)-/CN
E10         1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                   ESTER, (Z)-/CN
E11         1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-((TRIM
                  ETHYLSILYL)METHYL)-, 5-METHYL-2-(1-METHYL-1-PHENYLETHYL)CYCL
                  OHEXYL ESTER, (1R-(1A(Z),2B,5A))-/CN
E12         1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-((TRIM
                  ETHYLSILYL)METHYL)-, 5-METHYL-2-(1-METHYLETHYL)CYCLOHEXYL ES
                  TER, (1R-(1A(Z),2B,5A))-/CN

=> d cost
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CONNECT CHARGES                                           2.28      40.31
NETWORK CHARGES                                           0.36       6.30
SEARCH CHARGES                                            0.00     182.73
DISPLAY CHARGES                                           0.00      24.88
                                                       -------    -------
FULL ESTIMATED COST                                       2.64     254.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -5.25

IN FILE 'REGISTRY' AT 13:53:33 ON 30 NOV 2006


=> e e5
E1          1     2-HEPTENOIC ACID, 7-((METHYLTHIO)THIOXOMETHOXY)-, ETHYL ESTE
                  R, (E)-/CN
E2          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, 4-(1,3
                  -DIOXOLAN-2-YL)BUTYL ESTER, (E)-/CN
E3          1 --> 2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL
                  ESTER/CN
E4          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL
                  ESTER, (2E)-/CN
E5          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL
                  ESTER, (E)-/CN
E6          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL
                  ESTER, (E)-(±)-/CN
E7          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                   ESTER, (E)-/CN
E8          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                   ESTER, (Z)-/CN
E9          1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-((TRIM
                  ETHYLSILYL)METHYL)-, 5-METHYL-2-(1-METHYL-1-PHENYLETHYL)CYCL
                  OHEXYL ESTER, (1R-(1A(Z),2B,5A))-/CN
E10         1     2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-((TRIM
                  ETHYLSILYL)METHYL)-, 5-METHYL-2-(1-METHYLETHYL)CYCLOHEXYL ES
```

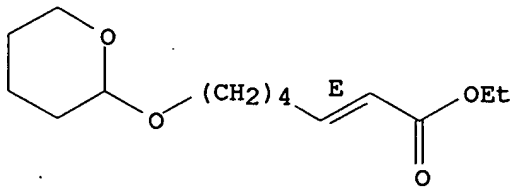
```
                    TER, (1R-(1A(Z),2B,5A))-/CN
E11          1      2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-((TRIM
                    ETHYLSILYL)METHYL)-, ETHYL ESTER, (E)-/CN
E12          1      2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-((TRIM
                    ETHYLSILYL)METHYL)-, ETHYL ESTER, (Z)-/CN

=> e5
L19          1 "2-HEPTENOIC ACID, 7-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL
               ESTER, (E)-"/CN

=> d l19

L19  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   136277-38-8  REGISTRY
ED   Entered STN:  20 Sep 1991
CN   2-Heptenoic acid, 7-[(tetrahydro-2H-pyran-2-yl)oxy]-, ethyl ester, (2E)-
     (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   2-Heptenoic acid, 7-[(tetrahydro-2H-pyran-2-yl)oxy]-, ethyl ester,
     (E)-(±)-
OTHER NAMES:
CN   2-Heptenoic acid, 7-[(tetrahydro-2H-pyran-2-yl)oxy]-, ethyl ester,
     (E)-
FS   STEREOSEARCH
MF   C14 H24 O4
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT, TOXCENTER

Double bond geometry as shown.
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              2 REFERENCES IN FILE CA (1907 TO DATE)
              2 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplue
'CAPLUE' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'REGISTRY'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available.  If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    10.62     262.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -5.25
```

FILE 'CAPLUS' ENTERED AT 13:55:23 ON 30 NOV 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE COVERS 1907 - 30 Nov 2006 VOL 145 ISS 23
FILE LAST UPDATED: 29 Nov 2006 (20061129/ED)

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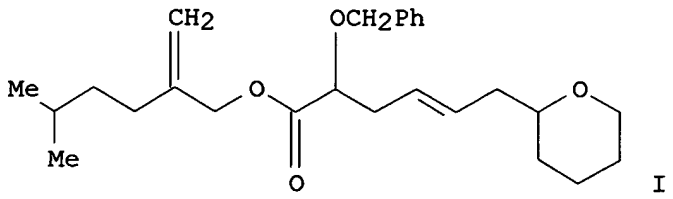
http://www.cas.org/infopolicy.html

=> l19
L20 2 L19

=> d l10 1-2 ti fbib abs
L10 HAS NO ANSWERS
'TI FBIB ABS ' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains data. (Default)
SIM ----- Structure IMage.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains data.
SDA ----- All Structure DAta (image, attributes, connection table and map table if it contains data).
NOS ----- NO Structure data.
ENTER STRUCTURE FORMAT (SIM), NOS:end

=> d l20 1-2 ti fbib abs

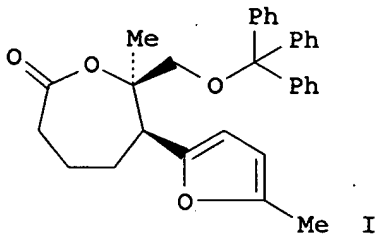
L20 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI A novel synthesis of the north west portion of Lasonolide A - an anticancer macrolide using Claisen rearrangement
AN 2005:184319 CAPLUS
DN 143:153204
TI A novel synthesis of the north west portion of Lasonolide A - an anticancer macrolide using Claisen rearrangement
AU Kar, Paramita; Rao, B. V.; Nagaiah, K.; Gurjar, M. K.
CS Organic Chemistry Division-III, Indian Institute of Chemical Technology, Hyderabad, 500 007, India
SO Journal of the Indian Chemical Society (2005), 82(1), 52-54
CODEN: JICSAH; ISSN: 0019-4522
PB Indian Chemical Society
DT Journal
LA English
OS CASREACT 143:153204
GI



I

AB A simplified analog of lasonolide A (C23-C35 side chain), I, was synthesized using Fujisawa's stereoselective variant of the Ireland Claisen ester rearrangement.
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Studies on the total synthesis of Pseudolaric acid A stereocontrolled synthesis of the seven-membered lactone
AN 1999:446511 CAPLUS
DN 131:272024
TI Studies on the total synthesis of Pseudolaric acid A stereocontrolled synthesis of the seven-membered lactone
AU Hu, You Hong; Ou, Li Gong; Wang, Xi Lu; Bai, Dong Lu
CS Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, 200031, Peop. Rep. China
SO Chinese Chemical Letters (1999), 10(4), 281-284
CODEN: CCLEE7; ISSN: 1001-8417
PB Chinese Chemical Society
DT Journal
LA English
OS CASREACT 131:272024
GI



I

AB Pseudolaric acid A intermediate lactone I was obtained stereo- and regioselectively by a reaction sequence of 9 steps in 21% overall yield.
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 7.78 | 269.98 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -1.50 | -6.75 |

```
FILE 'REGISTRY' ENTERED AT 13:58:23 ON 30 NOV 2006
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STRUCTURE FILE UPDATES:   29 NOV 2006  HIGHEST RN 914337-13-6
DICTIONARY FILE UPDATES:  29 NOV 2006  HIGHEST RN 914337-13-6

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> e 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL ESTER, (E)-/CN
E1            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                     STER, (2E)-/CN
E2            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, ETHYL E
                     STER, (E)-/CN
E3            1 --> 2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                     ESTER, (E)-/CN
E4            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                     ESTER, (Z)-/CN
E5            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                     RIMETHYLSTANNYL)-, METHYL ESTER, (E)-/CN
E6            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2,3-BIS(T
                     RIMETHYLSTANNYL)-, METHYL ESTER, (Z)-/CN
E7            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-2-(TRIBUT
                     YLSTANNYL)-3-(TRIMETHYLGERMYL)-, METHYL ESTER, (E)-/CN
E8            1      2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-3-(TRIBUT
                     YLSTANNYL)-2-(TRIMETHYLGERMYL)-, METHYL ESTER, (Z)-/CN
E9            1      2-HEXENOIC ACID, 6-((TRIS(1,1-DIMETHYLETHYL)SILYL)OXY)-, ETH
                     YL ESTER/CN
E10           1      2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-2-HYDROXY-4,6-DIOXO-
                     /CN
E11           1      2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-2-HYDROXY-4,6-DIOXO-
                     , METHYL ESTER/CN
E12           1      2-HEXENOIC ACID, 6-(1,1'-BIPHENYL)-4-YL-3-METHYL-, METHYL ES
                     TER/CN

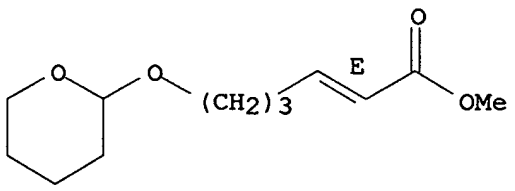
=> e3
L21           1 "2-HEXENOIC ACID, 6-((TETRAHYDRO-2H-PYRAN-2-YL)OXY)-, METHYL
                ESTER, (E)-"/CN

=> d l21

L21  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   127089-43-4  REGISTRY
ED   Entered STN:  11 May 1990
CN   2-Hexenoic acid, 6-[(tetrahydro-2H-pyran-2-yl)oxy]-, methyl ester,
     (E)- (9CI)  (CA INDEX NAME)
FS   STEREOSEARCH
```

MF  C12 H20 O4
SR  CA
LC  STN Files:  BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
        (*File contains numerically searchable property data)

Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 7.10 | 277.08 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -6.75 |

FILE 'CAPLUS' ENTERED AT 13:59:01 ON 30 NOV 2006


FILE COVERS 1907 - 30 Nov 2006  VOL 145 ISS 23
FILE LAST UPDATED: 29 Nov 2006  (20061129/ED)

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=> l21
L22  6 L21

=> d l22 1-6 ti fbib abs

L22  ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2006 ACS on STN
TI  Stereocontrolled Synthesis of Cyclic Ethers by Intramolecular

Hetero-Michael Addition. 5. Synthesis of All Diastereoisomers of 2,3,5,6-Tetrasubstituted Tetrahydropyrans

AN 1997:416807 CAPLUS

DN 127:95167

TI Stereocontrolled Synthesis of Cyclic Ethers by Intramolecular Hetero-Michael Addition. 5. Synthesis of All Diastereoisomers of 2,3,5,6-Tetrasubstituted Tetrahydropyrans

AU Betancort, Juan M.; Martin, Victor S.; Padron, Jose M.; Palazon, Jose M.; Ramirez, Miguel A.; Soler, Marcos A.

CS Instituto Universitario de Bio-Organica Antonio Gonzalez, Universidad de La Laguna, Laguna, 38206 LA, Spain

SO Journal of Organic Chemistry (1997), 62(14), 4570-4583
CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

OS CASREACT 127:95167

AB A systematic approach to the enantiomeric synthesis of all possible diastereoisomers of 2,6-dialkyl-3,5-dioxytetrahydropyrans is described. The key step is the intramol. cyclization of enantiomerically enriched (≥95% ee) 7-hydroxy-4-(benzoyloxy)-2,3-unsatd. esters. In fused systems, six of the eight diastereoisomers for one enantiomeric series were synthesized using this procedure. Using those with the suitable stereochem., the two left were synthesized by simple chemical transformations: in one case by the basic isomerization of the carbon with the (methoxycarbonyl)methyl substituent or by a Mitsunobu inversion of a secondary alc. available from the benzoyloxy group, in the remaining one by a consecutive sequence of oxidation and reduction reactions again over the free secondary alc. The stereochem. of the intramol. hetero-Michael addition leading to 2,3-disubstituted tetrahydropyrans is highly predictable when kinetic conditions (low temperature and sodium or potassium bases) are used and can be rationalized by invoking a model of a chair-like transition state in which the benzoyloxy group is located in the equatorial mode and the stereochem. course of the approach of the α,β-unsatd. ester is controlled by the geometry of the double bond. As a rule of thumb, the cyclization using E double bonds yielded cis-2,3-disubstituted tetrahydropyrans, while (Z)-unsatd. esters yielded the trans compds. This empirical rule is followed in highly substituted systems, leading to fused 2,3,5,6-tetrasubstituted tetrahydropyrans, with the same absolute configuration in the carbon where the nucleophilic oxygen is located and the one where the benzoyloxy group is located. Those systems having opposite configurations yield the same trans-2,3-disubstituted compound The isomerization under thermodn. conditions (room or higher temperature with excess of base) of the diastereoisomers with the (methoxycarbonyl)methyl substituent in the axial mode led quant. to those in which such a group was located equatorially. The scope and limitations of the method are described in both the synthesis of the unsatd. precursor and the stereochem. reached in the cyclization step.

RE.CNT 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Intramolecular Diels-Alder reactions of internally-substituted trienylsulfones. Synthesis of bicyclo[4.3.0] and -[4.4.0] systems possessing a bridgehead sulfonyl group

AN 1995:371268 CAPLUS

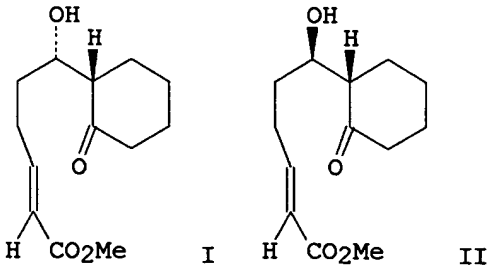
DN 123:169270

TI Intramolecular Diels-Alder reactions of internally-substituted trienylsulfones. Synthesis of bicyclo[4.3.0] and -[4.4.0] systems possessing a bridgehead sulfonyl group

AU Clasby, Martin C.; Craig, Donald; Slawin, Alexandra M. Z.; White, Andrew J. P.; Williams, David J.

CS Dep. Chem., Imperial Coll. Sci., Technol. and Med., London, SW7 2AY, UK
SO Tetrahedron (1995), 51(5), 1509-32
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier
DT Journal
LA English
OS CASREACT 123:169270
AB A series of trienes possessing internally-activated vinylic sulfone dienophilic groups undergo intramol. Diels-Alder (IMDA) reaction with high or complete selectivity for the cis-fused products. Incorporation of silyloxy groups within the carbon tether linking the diene and dienophile results in increased IMDA reactivity. The stereochem. outcomes of these processes are rationalized in terms of the preference for an exo-oriented phenylsulfonyl group and a minimization of non-bonded interactions between the silyloxy and sulfone substituents.

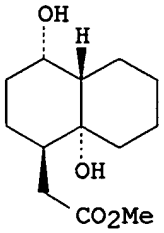
L22 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
TI Stereoselective formation of trans-decalin and cis-decalin skeletons via hydroxy group directed cyclization induced by samarium(II) iodide
AN 1993:408384 CAPLUS
DN 119:8384
TI Stereoselective formation of trans-decalin and cis-decalin skeletons via hydroxy group directed cyclization induced by samarium(II) iodide
AU Kito, Makoto; Sakai, Toshinari; Yamada, Kaori; Matsuda, Fuyuhiko; Shirahama, Haruhisa
CS Fac. Sci., Hokkaido Univ., Sapporo, 060, Japan
SO Synlett (1993), (2), 158-62
CODEN: SYNLES; ISSN: 0936-5214
DT Journal
LA English
OS CASREACT 119:8384
GI



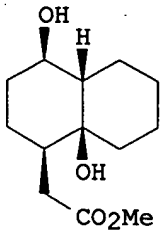
I



II



III

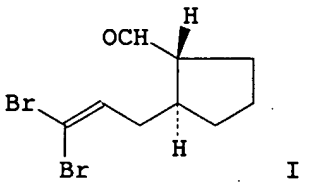


IV

AB By treating anti-hydroxy ketones, e.g., I, and syn-hydroxy ketones, e.g., II, with samarium(II) iodide, the ketone-olefin coupling cyclizations took place in a stereocontrolled manner to give the trans-decalin diol III and an epimeric mixts. of the cis-decalin diols, e.g., IV resp. The observed stereochemistries on the reductive coupling products are established by

chelation of the samarium(III) cation generated in the process, with the hydroxyl groups incorporated in the starting materials.

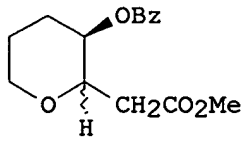
L22 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
TI Synthesis of ikarugamycin: model studies on a new strategy for the closure of ring C
AN 1990:611663 CAPLUS
DN 113:211663
TI Synthesis of ikarugamycin: model studies on a new strategy for the closure of ring C
AU Jones, Raymond C. F.; Jones, Richard F.
CS Chem. Dep., Nottingham Univ., Nottingham, NG7 2RD, UK
SO Tetrahedron Letters (1990), 31(23), 3367-8
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
OS CASREACT 113:211663
GI



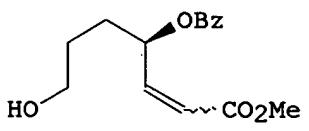
I

AB A new conjugate addition-alkylation approach suitable for the closure of ring C of ikarugamycin is demonstrated by the concise elaboration of the trans-disubstituted cyclopentane I from (E)-MeO2CCH:CH(CH2)3I and LiCH2CO2CMe3. ABS: I has been converted into the cyclopentane analog of the natural product.

L22 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
TI Enantiomeric synthesis of endo-substituted tetrahydropyrans
AN 1990:497301 CAPLUS
DN 113:97301
TI Enantiomeric synthesis of endo-substituted tetrahydropyrans
AU Martin, Victor S.; Nunez, Maria T.; Ramirez, Miguel A.; Soler, Marcos A.
CS Cent. Prod. Nat. Org. "Antonio Gonzalez", Inst. Univ. Bio-Org., La Laguna, 38206, Spain
SO Tetrahedron Letters (1990), 31(5), 763-6
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
OS CASREACT 113:97301
GI



I



II

AB A general procedure for the enantioselective synthesis of 3-hydroxy-2-alkyltetrahydropyran benzoates I with absolute stereochem. control uses a new intramol. diastereoselective cyclization of chiral hydroxy-α,β-chiral unsatd. esters E- and Z-II. I are synthons

for the tetrahydropyran rings of the brevetoxins.

L22 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
TI A practical synthesis of (2E,6E,8E)-N-(2-methylpropyl)-2,6,8-hexadecatrien-10-ynamide
AN 1990:216530 CAPLUS
DN 112:216530
TI A practical synthesis of (2E,6E,8E)-N-(2-methylpropyl)-2,6,8-hexadecatrien-10-ynamide
AU Sharma, G. V. M.; Rajagopal, D.; Rao, E. Sreenivasa
CS Div. Org. Chem. III, Indian Inst. Chem. Technol., Hyderabad, 500 007, India
SO Synthetic Communications (1989), 19(18), 3181-9
CODEN: SYNCAV; ISSN: 0039-7911
DT Journal
LA English
OS CASREACT 112:216530
AB The title compound, derived from Achillea ageratifolia, was prepared from (E)-HOCH2CH:CHC.tplbond.CH via Wittig reaction of (E)-Me(CH2)4C.tplbond.CCH:CHCH2P+Ph3 Br- and (E)-MeO2CCH:CHCH2CH2CHO.

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 27.94 | 305.02 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -4.50 | -11.25 |

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|---|---|---|
| FULL ESTIMATED COST | 27.94 | 305.02 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -4.50 | -11.25 |

=> save temp all tiredsrch/l
L# LIST L1-L22 HAS BEEN SAVED AS 'TIREDSRCH/L'

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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|

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FULL ESTIMATED COST                                    28.86     305.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -4.50     -11.25

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FULL ESTIMATED COST                                  28.86     305.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                  -4.50     -11.25

=> file reg
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                  28.86     305.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                  -4.50     -11.25

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on property searching in REGISTRY, refer to:
```

http://www.cas.org/ONLINE/UG/regprops.html

```
=> e 5-phenylpentynoic acid/cn
E1            1     5-PHENYLPENTYLMETHYLAMINE/CN
E2            1     5-PHENYLPENTYLSULFONYL CHLORIDE/CN
E3            0 --> 5-PHENYLPENTYNOIC ACID/CN
E4            1     5-PHENYLPHENAZIN-3-ONE/CN
E5            1     5-PHENYLPHENAZINIUM PERCHLORATE/CN
E6            1     5-PHENYLPHENAZINIUM, HYDROGEN SULFATE/CN
E7            1     5-PHENYLPHENOXYMETHYLPENICILLIN BENZYL ESTER/CN
E8            1     5-PHENYLPHENOXYMETHYLPENICILLIN K SALT/CN
E9            1     5-PHENYLPHENOXYMETHYLPENICILLIN SULFOXIDE BENZYL ESTER/CN
E10           1     5-PHENYLPHTHALIMIDE/CN
E11           1     5-PHENYLPIPERIDIN-3-OL/CN
E12           1     5-PHENYLPIPERIDINE-2,4-DIONE/CN

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.88     306.82

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                       0.00     -11.25

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.88     306.82

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00     -11.25

=> e 5-phenylpentanoic acid
E1            1     5-G/BI
E2            1     5-METHYL-2-PYRIDYL/BI
E3            0 --> 5-PHENYLPENTANOIC ACID/BI
E4            1     5-THREONINE/BI
E5            1     5.,11/BI
E6            1     5.,MO/BI
E7          227     5.0/BI
E8            3     5.0,AG/BI
E9            5     5.0,AL/BI
E10           1     5.0,AS/BI
```

```
E11           4      5.0,B/BI
E12           3      5.0,C/BI

=> e 5-phenylpentanoic acid/cn
E1            1      5-PHENYLPENTANETHIOL/CN
E2            1      5-PHENYLPENTANOATE ION(1-)/CN
E3            1 --> 5-PHENYLPENTANOIC ACID/CN
E4            1      5-PHENYLPENTANOIC ACID (2-(4,5,6,7-TETRAHYDRO-1H-BENZIMIDAZO
                     L-4-YL)ETHYL)AMIDE MONO(TRIFLUOROACETATE)/CN
E5            1      5-PHENYLPENTANOIC ACID (4,5,6,7-TETRAHYDRO-1H-BENZIMIDAZOL-4
                     -YLMETHYL)AMIDE MONO(TRIFLUOROACETATE)/CN
E6            1      5-PHENYLPENTANOIC ACID (4,5,6,7-TETRAHYDRO-1H-BENZIMIDAZOL-5
                     -YL)AMIDE HYDROCHLORIDE/CN
E7            1      5-PHENYLPENTANOIC PERACID/CN
E8            1      5-PHENYLPENTANOL/CN
E9            1      5-PHENYLPENTANOYL CHLORIDE/CN
E10           1      5-PHENYLPENTANOYLFERROCENE/CN
E11           1      5-PHENYLPENTANOYLHYDROXAMIC ACID/CN
E12           1      5-PHENYLPENTYL BROMIDE/CN

=> e3
L23           1 "5-PHENYLPENTANOIC ACID"/CN

=> d l23

L23  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   2270-20-4  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Benzenepentanoic acid (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Valeric acid, δ-phenyl- (4CI)
CN   Valeric acid, 5-phenyl- (6CI, 7CI, 8CI)
OTHER NAMES:
CN   δ-Phenylvaleric acid
CN   5-Phenylpentanoic acid
CN   5-Phenylvaleric acid
CN   NSC 65637
CN   Phenylpentanoic acid
CN   Phenylvaleric acid
MF   C11 H14 O2
CI   COM
LC   STN Files:   AGRICOLA, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD,
       CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, EMBASE,
       IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, RTECS*, SPECINFO, TOXCENTER,
       USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   EINECS**
         (**Enter CHEMLIST File for up-to-date regulatory information)
```

$HO_2C-(CH_2)_4-Ph$

```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

             461 REFERENCES IN FILE CA (1907 TO DATE)
              14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             462 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              22 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 5-phenoxypentanoic acid/cn
```

```
E1            1      5-PHENOXYPENT-3-YN-2-ONE/CN
E2            1      5-PHENOXYPENTANENITRILE/CN
E3            1 --> 5-PHENOXYPENTANOIC ACID/CN
E4            1      5-PHENOXYPENTYL BROMIDE/CN
E5            1      5-PHENOXYPENTYL PHENYL KETONE/CN
E6            1      5-PHENOXYPENTYLAMINE/CN
E7            1      5-PHENOXYPENTYLMETHYLAMINE/CN
E8            1      5-PHENOXYPHENYLHYDRAZINE/CN
E9            1      5-PHENOXYPIPERIDIN-3-OL/CN
E10           1      5-PHENOXYSALICYLIC ACID/CN
E11           1      5-PHENOXYTETRAZOLE/CN
E12           1      5-PHENOXYTHIOPHENE-2-CARBOXALDEHYDE/CN

=> e3
L24           1 "5-PHENOXYPENTANOIC ACID"/CN

=> d l24

L24  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   7170-40-3  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Pentanoic acid, 5-phenoxy- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Valeric acid, 5-phenoxy- (6CI, 7CI, 8CI)
OTHER NAMES:
CN   5-Phenoxypentanoic acid
CN   5-Phenoxyvaleric acid
CN   NSC 192711
MF   C11 H14 O3
CI   COM
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM,
       SPECINFO, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)


HO2C-(CH2)4-OPh


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

             44 REFERENCES IN FILE CA (1907 TO DATE)
              2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             44 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> file caplus
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FILE LAST UPDATED: 29 Nov 2006 (20061129/ED)

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=> l24
L25 44 L24

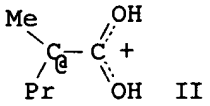
=> l24/prep
44 L24
4025189 PREP/RL
L26 11 L24/PREP
(L24 (L) PREP/RL)

=> d l26 5-11 ti fbib abs

L26 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of Grignard reagents from 3-halo ethers
AN 1983:575835 CAPLUS
DN 99:175835
TI Preparation of Grignard reagents from 3-halo ethers
AU Burns, Timothy P.; Rieke, Reuben D.
CS Dep. Chem., Univ. Nebraska, Lincoln, NE, 68588-0304, USA
SO Journal of Organic Chemistry (1983), 48(22), 4141-3
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 99:175835
AB Treating PhO(CH2)3Br (I) with Mg turnings or highly reactive Mg powder in THF at room temperature followed by treatment with CO2 and hydrolysis gave PhOH and cyclopropane. Treating I with activated Mg (prepared according to R. D. Rieke, et al., 1981) in THF at -78° followed by treatment with CO2 and hydrolysis gave 71% PhO(CH2)3CO2H. PhO(CH2)nBr (n = 4-6) also formed stable Grignard reagents at low temps., but these reagents did not cyclize even in refluxing THF. Treating the reagents with CO2 followed by hydrolysis give 73-89% PhO(CH2)nCO2H.

L26 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Pseudo one-step cleavage of carbon-carbon bonds in the decomposition of ionized carboxylic acids. Radical-like reactions in mass spectrometry
AN 1983:125205 CAPLUS
DN 98:125205
TI Pseudo one-step cleavage of carbon-carbon bonds in the decomposition of ionized carboxylic acids. Radical-like reactions in mass spectrometry
AU Weiske, Thomas; Schwarz, Helmut
CS Inst. Org. Chem., Tech. Univ. Berlin, Berlin, D-1000/12, Fed. Rep. Ger.
SO Chemische Berichte (1983), 116(1), 323-47
CODEN: CHBEAM; ISSN: 0009-2940
DT Journal
LA German
OS CASREACT 98:125205

GI



II

AB Metastable mol. ions of hexanoic acid (I) decompose unimol. to Et• and protonated methacrylic acid via intramol. H shift from C-3 or C-5 to the ionized carbonyl O; II is the essential intermediate. The gas-phase chemical of I cation radical, particularly H exchange between the CH2 groups C-2/C-3 and C-5/C-6, corresponds closely to the chemical of free alkyl radicals. The preparation of 13C- and D-labeled compds. is described.

L26 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Mass spectrometry in structural and stereochemical problems. CLXXIII. The electron impact induced fragmentations and rearrangements of trimethylsilyl esters of w-phenoxyalkanoic acids
AN 1969:523319 CAPLUS
DN 71:123319
TI Mass spectrometry in structural and stereochemical problems. CLXXIII. The electron impact induced fragmentations and rearrangements of trimethylsilyl esters of w-phenoxyalkanoic acids
AU Diekman, John; Thomson, James Bernard; Djerassi, Carl
CS Stanford Univ., Stanford, CA, USA
SO Journal of Organic Chemistry (1969), 34(10), 3147-61
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
AB In connection with the computer assisted interpretation of mass spectra, studies of the mass spectra of bifunctional compds. are needed in order to determine whether the electron impact-induced fragmentations are characteristic of each functional group or whether they reflect some interaction of the 2 groups. In view of the wide applications of trimethylsilyl derivs. in combined vapor phase chromatog.-mass spectrometry, the mass spectra of a series of trimethylsilyl ω-phenoxyalkanoates were investigated. These mass spectra exhibit 4 prominent decomposition modes which depend upon the interaction of the Ph ether and silyl ester moieties. The mass spectra of some Ph, benzyloxy and alkoxy analogs as well as some Me ester analogs illustrate the necessity of the presence of a heteroatom in both of the functional groups at the ends of the polymethylene chain in order to observe the appropriate interactions. Since these seem to be rather independent of chain length, it is suggested that charge transfer involving the heteroatoms is responsible for maintaining the heteroatoms in close proximity, thus resulting in coiling of the polymethylene chain. The cleavages characteristic of each separate functionality in these compds. are also discussed.

L26 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Chloro carboxylic acids and some of their transformations
AN 1956:23982 CAPLUS
DN 50:23982
OREF 50:4849f-i,4850a-d
TI Chloro carboxylic acids and some of their transformations
AU Nesmeyanov, A. N.; Zakharkin, L. I.
CS Inst. Hetero-org. Compds., Acad. Sci., Moscow
SO Bulletin of the Academy of Sciences of the USSR, Division of Chemical Science (English Translation) (1955) 199-205
CODEN: BACCAT; ISSN: 0568-5230
DT Journal

LA English
AB cf. C.A. 49, 6120g. The tetrachloroalkanes used below were prepared from CCl4 and C2H4 as described earlier. Cl(CH2)4CCl3 was hydrolyzed to Cl(CH2)4CO2H; amide, m. 78-9°; anilide, m. 108-9°. Cl(CH2)6CCl3 was hydrolyzed to Cl(CH2)6CO2H; Et ester, b11 122-3°, nD20 1.4392, d20 1.0110; anilide, m. 85-6°; amide, m. 82-3°. Cl(CH2)8CCl3 gave Cl(CH2)8CO2H, m. 29-30°; Et ester, b8 136-7°, nD20 1.4434, d20 0.9854; acyl chloride, b3 100-1°; amide, m. 76-7°; anilide, m. 95-6°; nitrile, b1.5 105-6°, nD20 1.4512, d20 0.9695. Cl(CH2)10CCl3, b3 141-2°, nD20 1.4822, d20 1.1558, heated with 92-3% H2SO4 1.5 hrs. at 100° gave 71.5% Cl(CH2)10CO2H, m. 41-2°, b1.5 149-51°; Et ester, b3 133-4°, nD20 1.4469, d20 0.9646; acyl chloride, b4.5 133-4°, amide, m. 89-90°; anilide, m. 69-70°; nitrile, b1.5 125-6°, nD20 1.4550, d20 0.9505. Cl(CH2)12CCl3, b1.5 152-3°, nD20 1.4842, d20 1.1290, gave 42% Cl(CH2)12CO2H, m. 52-3°; Et ester, b1.5 147-9°, nD20 1.4535, d20 0.9604; acyl chloride, b1.5 146-7°; anilide, m. 70-1°. Cl(CH2)14CCl3, b1 176-8°, nD20 1.4858, d20 1.1078, gave 24% Cl(CH2)14CO2H, m. 62-3°; Et ester, b1.5 168-70°, m. 31.5-2.5°; acyl chloride, b1.5 165-6°, m. 30-1°; anilide, m. 79-80°. Cl(CH2)4CO2Et heated with EtONa gave a little Et allylacetate and a good yield of EtO(CH2)4CO2Et, b10 87-8°, nD20 1.4225, d20 0.9386. Similarly Cl(CH2)6CO2Et gave EtO(CH2)6CO2Et, b1.5 77-8°, nD20 1.4292, d20 0.9290. NaCH(CO2Et)2 with Cl(CH2)4CO2Et in the presence of NaI in absolute EtOH gave in 6 hrs. 87% EtO2C(CH2)4CH(CO2Et)2, b2 147-9°, nD20 1.4389, d20 1.0568, hydrolyzed with 1:1 HCl to pimelic acid. Similarly, Cl(CH2)6CO2Et gave 79% EtO2C(CH2)6CH(CO2Et)2, b1.5 169-70°, nD20 1.4419, d20 1.0316, hydrolyzed with HCl to azelaic acid. Refluxing Cl(CH2)8CO2H with PhOH in aqueous NaOH 3 hrs. gave 91% PhO(CH2)8CO2H, m. 69-70°; similarly was prepared PhO(CH2)6CO2H, m. 56-7°. Heating 20 g. δ-valerolactone with PhONa from 20 g. PhOH 4.5 hrs. at 200-10° gave on acidification 81% PhO(CH2)4CO2H, m. 65-6°, while NaSPh solution gave 65% PhS(CH2)4CO2H, m. 63-4°. Cl(CH2)6CO2H and NaCN in aqueous NaOH gave 63% NC(CH2)6CO2H, b1.5 145-7°, m. 39-40°, reduced with H over Raney Ni in 25% NH3 at 65-70° and 90 atmospheric to H2N(CH2)7CO2H, m. 187-8°, in high yield. Heating Cl(CH2)6CO2H with aqueous NaOH-Na2CO3 3 hrs. in an autoclave at 140-50° gave a good yield of HO(CH2)6CO2H, a sirup. Heating 18 g. Cl(CH2)6CO2H with 13.5 g. NaOH and 23 g. Me3N.HCl in 100 ml. H2O 3 hrs. in an autoclave at 130-40°, evaporating, and heating 1 hr. with 28 g. NaOH, finally to 185°, until Me3N evolution ceased, gave 10.1 g. CH2:CH(CH2)4CO2H, b14 118-20°, nD20 1.4400, d20 0.9500; p-toluidide, m. 60-1°; amide, m. 83-4°. Cl(CH2)4COCl (31 g.) in C6H6 treated with cooling with 28 g. AlCl3, the mixture allowed to stand 1 hr., refluxed 5 min., quenched in ice, and the organic layer washed with H2O gave 90% Cl(CH2)4Bz, m. 49-50°. Similarly was prepared 72% Cl(CH2)6Bz, b1.5, 147-8°, m. 34-5°; 2,4-dinitrophenylhydrazone, m. 110-11°. "Cl(CH2)4CO2H in C6H6 with AlCl3 gave after 1 hr. on a steam bath 80% Ph(CH2)4CO2H," b1.5 132-3°, m. 59-60°; larger proportions of AlCl3 tend to produce also some α-benzosuberone, b7 124-5°, nD20 1.5618, d20 1.0780 (2,4-dinitrophenylhydrazone, m. 171-2°). Cl(CH2)6CO2H similarly gave 76.5% PhCHMe(CH2)4CO2H, b3 165-6°, nD20 1.5089, d20 1.0206; amide, m. 55.5-6.5°. Cl(CH2)8CO2H gave PhCHMe(CH2)6CO2H, b1 155-7°, nD20 1.5043, d20 0.9957; oxidation gave AcPh. Similarly was prepared PhCHMe(CH2)8CO2H, b3 186-8°, nD20 1.5005, d20 0.9779.

L26 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Chloro carboxylic acids and some of their transformations
AN 1956:23981 CAPLUS
DN 50:23981
OREF 50:4849f-i,4850a-d

TI Chloro carboxylic acids and some of their transformations
AU Nesmeyanov, A. N.; Zakharkin, L. I.
CS Inst. Hetero-org. Compds., Acad. Sci., Moscow
SO Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1955) 224-32
CODEN: IASKA6; ISSN: 0002-3353
DT Journal
LA Unavailable
AB cf. C.A. 49, 6120g. The tetrachloroalkanes used below were prepared from CCl4 and C2H4 as described earlier. Cl(CH2)4CCl3 was hydrolyzed to Cl(CH2)4CO2H; amide, m. 78-9°; anilide, m. 108-9°. Cl(CH2)6CCl3 was hydrolyzed to Cl(CH2)6CO2H; Et ester, b11 122-3°, nD20 1.4392, d20 1.0110; anilide, m. 85-6°; amide, m. 82-3°. Cl(CH2)8CCl3 gave Cl(CH2)8CO2H, m. 29-30°; Et ester, b8 136-7°, nD20 1.4434, d20 0.9854; acyl chloride, b3 100-1°; amide, m. 76-7°; anilide, m. 95-6°; nitrile, b1.5 105-6°, nD20 1.4512, d20 0.9695. Cl(CH2)10CCl3, b3 141-2°, nD20 1.4822, d20 1.1558, heated with 92-3% H2SO4 1.5 h. at 100° gave 71.5% Cl(CH2)10CO2H, m. 41-2°, b1.5 149-51°; Et ester, b3 133-4°, nD20 1.4469, d20 0.9646; acyl chloride, b4.5 133-4°, amide, m. 89-90°; anilide, m. 69-70°; nitrile, b1.5 125-6°, nD20 1.4550, d20 0.9505. Cl(CH2)12CCl3, b1.5 152-3°, nD20 1.4842, d20 1.1290, gave 42% Cl(CH2)12CO2H, m. 52-3°; Et ester, b1.5 147-9°, nD20 1.4535, d20 0.9604; acyl chloride, b1.5 146-7°; anilide, m. 70-1°. Cl(CH2)14CCl3, b1 176-8°, nD20 1.4858, d20 1.1078, gave 24% Cl(CH2)14CO2H, m. 62-3°; Et ester, b1.5 168-70°, m. 31.5-2.5°; acyl chloride, b1.5 165-6°, m. 30-1°; anilide, m. 79-80°. Cl(CH2)4CO2Et heated with EtONa gave a little Et allylacetate and a good yield of EtO(CH2)4CO2Et, b10 87-8°, nD20 1.4225, d20 0.9386. Similarly Cl(CH2)6CO2Et gave EtO(CH2)6CO2Et, b1.5 77-8°, nD20 1.4292, d20 0.9290. NaCH(CO2Et)2 with Cl(CH2)4CO2Et in the presence of NaI in absolute EtOH gave in 6 h. 87% EtO2C(CH2)4CH(CO2Et)2, b2 147-9°, nD20 1.4389, d20 1.0568, hydrolyzed with 1:1 HCl to pimelic acid. Similarly, Cl(CH2)6CO2Et gave 79% EtO2C(CH2)6CH(CO2Et)2, b1.5 169-70°, nD20 1.4419, d20 1.0316, hydrolyzed with HCl to azelaic acid. Refluxing Cl(CH2)8CO2H with PhOH in aqueous NaOH 3 h. gave 91% PhO(CH2)8CO2H, m. 69-70°; similarly was prepared PhO(CH2)6CO2H, m. 56-7°. Heating 20 g. δ-valerolactone with PhONa from 20 g. PhOH 4.5 h. at 200-10° gave on acidification 81% PhO(CH2)4CO2H, m. 65-6°, while NaSPh solution gave 65% PhS(CH2)4CO2H, m. 63-4°. Cl(CH2)6CO2H and NaCN in aqueous NaOH gave 63% NC(CH2)6CO2H, b1.5 145-7°, m. 39-40°, reduced with H over Raney Ni in 25% NH3 at 65-70° and 90 atmospheric to H2N(CH2)7CO2H, m. 187-8°, in high yield. Heating Cl(CH2)6CO2H with aqueous NaOH-Na2CO3 3 h. in an autoclave at 140-50° gave a good yield of HO(CH2)6CO2H, a sirup. Heating 18 g. Cl(CH2)6CO2H with 13.5 g. NaOH and 23 g. Me3N.HCl in 100 mL. H2O 3 h. in an autoclave at 130-40°, evaporating, and heating 1 h. with 28 g. NaOH, finally to 185°, until Me3N evolution ceased, gave 10.1 g. CH2:CH(CH2)4CO2H2 b14 118-20°, nD20 1.4400, d20 0.9500; p-toluidide, m. 60-1°; amide, m. 83-4°. Cl(CH2)4COCl (31 g.) in C6H6 treated with cooling with 28 g. AlCl3, the mixture allowed to stand 1 h., refluxed 5 min., quenched in ice, and the organic layer washed with H2O gave 90% Cl(CH2)4Bz, m. 49-50°. Similarly was prepared 72% Cl(CH2)6Bz, b1.5, 147-8° m. 34-5°; 2,4-dinitrophenylhydrazone, m. 110-11°. "Cl(CH2)4CO2H in C6H6 with AlCl3 gave after 1 h. on a steam bath 80% Ph(CH2)4CO2H, b1.5 132-3°, m. 59-60°; larger proportions of AlCl3 tend to produce also some α-benzosuberone, b7 124-5°, nD20 1.5618, d20 1.0780 (2,4-dinitrophenylhydrazone, m. 171-2°). Cl(CH2)6CO2H similarly gave 76.5% PhCHMe(CH2)4CO2H, b3 165-6°, nD20 1.5089, d20 1.0206; amide, m. 55.5-6.5°. Cl(CH2)8CO2H gave PhCHMe(CH2)6CO2H, b1 155-7°, nD20 1.5043, d20 0.9957; oxidation gave AcPh. Similarly was prepared PhCHMe(CH2)8CO2H, b3 186-8°, nD20 1.5005, d20 0.9779.

L26 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Synthetical experiments relating to carpaine. III. Some derivatives of tetrahydrofuran and intermediates of the aliphatic series
AN 1937:38106 CAPLUS
DN 31:38106
OREF 31:5351i,5352a-g
TI Synthetical experiments relating to carpaine. III. Some derivatives of tetrahydrofuran and intermediates of the aliphatic series
AU Barger, G.; Robinson, Robert; Smith, Leonard H.
SO Journal of the Chemical Society (1937) 718-25
CODEN: JCSOA9; ISSN: 0368-1769
DT Journal
LA Unavailable
OS CASREACT 31:38106
AB Tetrahydrofurfuryl chloride is surprisingly inert toward KCN and AcCHNaCO2Et and even the bromide (I) could not be condensed with the latter reagent in Et2O, EtOH, dioxane, PhMe or C6H6; with CHNa-(CO2Et)2 there results 70% of Et tetrahydrofurfurylmalonate (II), b1 123°; hydrolysis and decarboxylation give β-tetrahydrofurylpropionic acid, b0.2 119° nD15 1.4591; Et ester, b11, 105°, nD15 1.4425. Reduction gives 75% of 3-tetrahydrofurylpropan-1-ol, b11 111.5°, nD13 1.4597; the chloride b11, 78°; the bromide (III) b16 100-1°. II and III with EtONa in EtOH, refluxed 30 h., give Et bis(tetrahydrofurfuryl)malonate, b0.5 165°, yielding on hydrolysis and decarboxylation β,β'-bis(tetrahydrofurfuryl)-isobutyric acid, b0.35 173°. Tetrahydrofurfuryl p-toluene-sulfonate, m. 38.7-9.1°. Refluxing 30 g. I, 20 g. KCN and 1 g. NaI in dilute EtOH for 35 h. gives 7 g. tetrahydro-furylacetonitrile, b13 92.4°, nD13 1.4476; hydrolysis of 10 g. gives 7.7 g. tetrahydrofurylacetic acid, b16 144-6°. II and 11-bromoundecanyl acetate in EtOH-EtONa, refluxed 5 h., followed by hydrolysis, yield 12,12-dicarboxy-13-tetrahydrofuryltridecan-1-ol, m. 108-9°. Details are given of the preparation of Et 2-furoylacetate in 93% yield from Et furoate, AcOEt and Na; b1, 113-14°, nD16 1.5055. Et 6-hydroxyhexoate (IV) (10 g.) and SOCl2 in C5H5N give 9.1 g. of the 6-Cl derivative, b14 106 °, nD18 1.4398; the 6-Br derivative (V) (with PBr3 in C5H5N) b21 126-7°; it is more satisfactorily prepared by using HBr and reesterifying (31 g. from 30 g. IV), although there is some question as to the homogeneity of the product, because isomerization may occur by way of an ethylene derivative It is suggested that such reactions should be effected in the presence of O2 and peroxide catalysts. Et 7-bromoheptoate (VI), b17 135°. Refluxing 31 g. V and 17.5 g. AcCH2CO2Et with EtONa for 9 h. gives 18 g. Et α-acetylsuberate, b0.28 154-8°; shaking with KOH at room temperature gives 8-ketononoic acid, m. 40-1°; 2,4-dinitrophenylhydrazone, yellow, m. 88-9°; semicarbazone, m. 136°; Et ester (VII), b11 141-2° (semicarbazone, m. 108°); p-phenylphenacyl ester, m. 93.5-5°. VI (25 g.) and AcCH2CO2Et give 18 g. crude Et α-acetylazelate, yielding with KOH 91.5% of 9-ketodecoic acid, m. 47.5-8.5°; semicarbazone, with 2 mols. H2O, m. 127° (anhydrous; from aqueous MeOH, m. 115-16°); Et ester, b11 154-6° (semicarbazone, m. 97-8°); p-phenylphenacyl ester, m. 68-70°. VII and AmMgBr give 8-hydroxy-8-methyltridecoic acid, isolated as the p-phenylphenacyl ester, m. 68-71°. AcCH2CO2Et and PhO(CH2)3Br with EtONa give 71% of Et γ-phenoxy-propylacetoacetate (VIII), b1, 164°, nD18; 1.5018; there also resulted Et bis(phenoxypropyl)acetoacetate, m. 61-2°. VIII (98.5 g.) and MeO2C(CH2)2COCl, refluxed 16 h. and hydrolyzed with KOH, give 22.5 g. of Me δ-phenoxybutyl ketone, pale lemon oil, b1 136-7°, nD13 1.5143 (2,4-dinitrophenylhydrazone, yellow, m. 97-8°); 8.5 g. of Et 5-phenoxyvalerate, b0.42 115-17° and 3 g. of the Et ester, b0.42 135-40°, of 8-phenoxyoctoic acid, m. 68-70°. Hydrolysis of VIII gives 5-phenoxyvaleric acid, whose

anilide m. 84.5-5.5°.

L26 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Synthesis of heptane-1,5-dicarboxylic acid
AN 1928:26986 CAPLUS
DN 22:26986
OREF 22:3137a-b
TI Synthesis of heptane-1,5-dicarboxylic acid
AU Carter, Albert S.
CS Univ. Wisconsin
SO Journal of the American Chemical Society (1928), 50, 1967-70
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA Unavailable
OS CASREACT 22:26986
AB Di-Et γ-phenoxypropylmalonate, b26 228-35°, results in 76% yield from CH2(CO2Et)2, PhO(CH2)3Br and Na; the free acid m. 72-8° (90% yield); heating at 175° gives 90% of PhO(CH2)4CO2H, m. 55-6°; HI gives 68% of I(CH2)4CO2H, whose Et ester b20 108-18°; with EtCH(CO2Et)2 and Na this gives the tri-Et ester, b20 192-200°, of heptane-1,5,5-tricarboxylic acid, m. 86-8°, decomps. 140°, giving heptane-1,5-dicarboxylic acid, m. 41.5-3°, analyzed as the Ag salt.

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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 23.89 | 348.43 |

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http://www.cas.org/ONLINE/UG/regprops.html

=> e 5-phenoxy-2-pentenoic acid/cn
E1 1 5-PHENOXY-2-NITROTOLUENE/CN
E2 1 5-PHENOXY-2-PENTANOL/CN
E3 0 --> 5-PHENOXY-2-PENTENOIC ACID/CN

```
E4            1      5-PHENOXY-2-PHENYL-1,3,4-OXADIAZOLE/CN
E5            1      5-PHENOXY-2-THENYL ALCOHOL/CN
E6            1      5-PHENOXY-2-THIOPHENEMETHANOL/CN
E7            1      5-PHENOXY-3,4,6-TRICHLOROPYRIDAZINE/CN
E8            1      5-PHENOXY-3,4-DIHYDRO-1H-QUINAZOLIN-2-ONE/CN
E9            1      5-PHENOXY-3-((4,5,7-TRIFLUOROBENZOTHIAZOL-2-YL)METHYL)INDOLE
                     -N-ACETIC ACID/CN
E10           1      5-PHENOXY-3-(A-HYDROXYETHYL)PYRIDINE/CN
E11           1      5-PHENOXY-3-(2-(4-BENZYLPIPERAZIN-1-YL)ETHYL)INDOLE/CN
E12           1      5-PHENOXY-3-(2-(4-PYRIDINYL)-1,3-THIAZOL-4-YL)-2(1H)-PYRIDIN
                     ONE/CN

=> e 6-phenoxy-2-hexenoic acid/cn
E1            1      6-PHENOXY-2-((4-PHENOXYPHENYL)AMINO)-4H-THIENO(2,3-D)(1,3)OX
                     AZIN-4-ONE/CN
E2            1      6-PHENOXY-2-BENZOFURANCARBOXYLIC ACID/CN
E3            0 --> 6-PHENOXY-2-HEXENOIC ACID/CN
E4            1      6-PHENOXY-2-HYDROXYHEXANOIC ACID/CN
E5            1      6-PHENOXY-2-OXOHEXANOIC ACID/CN
E6            1      6-PHENOXY-2-PYRIDINECARBOTHIOAMIDE/CN
E7            1      6-PHENOXY-2-PYRIDINECARBOXALDEHYDE/CN
E8            1      6-PHENOXY-2-PYRIDINECARBOXYLIC ACID/CN
E9            1      6-PHENOXY-2-PYRIDINEMETHANETHIOL/CN
E10           1      6-PHENOXY-2-PYRIDINEMETHANOL/CN
E11           1      6-PHENOXY-3-PYRIDINAMINE/CN
E12           1      6-PHENOXY-3-PYRIDINAMINE HYDROCHLORIDE/CN

=> logoff hold
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   1.76     350.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00     -16.50

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 NEWS  4  AUG 28  ADISCTI Reloaded and Enhanced
 NEWS  5  AUG 30  CA(SM)/CAplus(SM) Austrian patent law changes
 NEWS  6  SEP 11  CA/CAplus enhanced with more pre-1907 records
 NEWS  7  SEP 21  CA/CAplus fields enhanced with simultaneous left and right
                  truncation
 NEWS  8  SEP 25  CA(SM)/CAplus(SM) display of CA Lexicon enhanced
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NEWS  9   SEP 25  CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 10   SEP 25  CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11   SEP 28  CEABA-VTB classification code fields reloaded with new
                  classification scheme
NEWS 12   OCT 19  LOGOFF HOLD duration extended to 120 minutes
NEWS 13   OCT 19  E-mail format enhanced
NEWS 14   OCT 23  Option to turn off MARPAT highlighting enhancements available
NEWS 15   OCT 23  CAS Registry Number crossover limit increased to 300,000 in
                  multiple databases
NEWS 16   OCT 23  The Derwent World Patents Index suite of databases on STN
                  has been enhanced and reloaded
NEWS 17   OCT 30  CHEMLIST enhanced with new search and display field
NEWS 18   NOV 03  JAPIO enhanced with IPC 8 features and functionality
NEWS 19   NOV 10  CA/CAplus F-Term thesaurus enhanced
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                  8.01c now available
NEWS 21   NOV 13  CA/CAplus pre-1967 chemical substance index entries enhanced
                  with preparation role
NEWS 22   NOV 20  CAS Registry Number crossover limit increased to 300,000 in
                  additional databases
NEWS 23   NOV 20  CA/CAplus to MARPAT accession number crossover limit increased
                  to 50,000
NEWS 24   NOV 20  CA/CAplus patent kind codes will be updated

NEWS EXPRESS  NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
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                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

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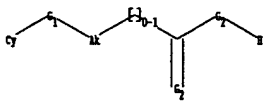

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exact/norm bonds :
1-2 2-3 3-4 5-6 5-9 6-7
exact bonds :
4-5

G1:CH2,O,S,N

G2:O,S

Hydrogen count :
4:>= minimum 2
Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS
Generic attributes :

3:
Type of chain : Linear
Saturation : Unsaturated

Element Count :
Node 3: Limited
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L1 STRUCTURE UPLOADED

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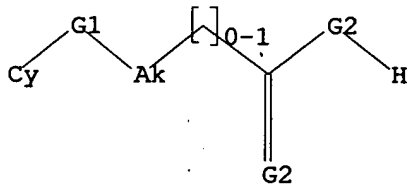
L1 STR




G1 CH2,O,S,N
G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 05:51:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1309181 TO ITERATE

0.2% PROCESSED 2000 ITERATIONS 3 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 26125935 TO 26241305
PROJECTED ANSWERS: 36617 TO 41933

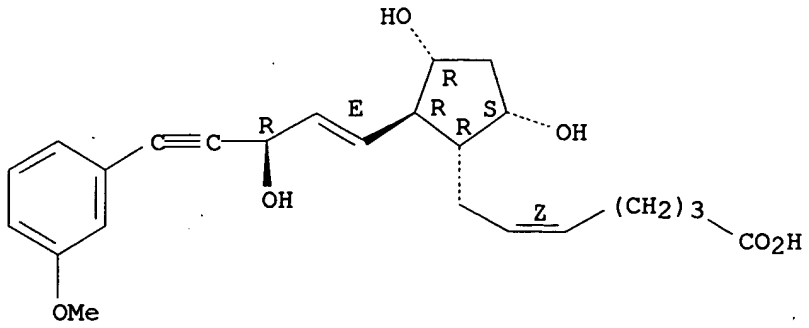
L2 3 SEA SSS SAM L1

=> dscan
0 DSCAN
L3 0 DSCAN

=> d scan l2

L2 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Heptenoic acid, 7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3R)-3-hydroxy-5-(3-methoxyphenyl)-1-penten-4-ynyl]cyclopentyl]-, (5Z)- (9CI)
MF C24 H30 O6

Absolute stereochemistry.
Double bond geometry as shown.

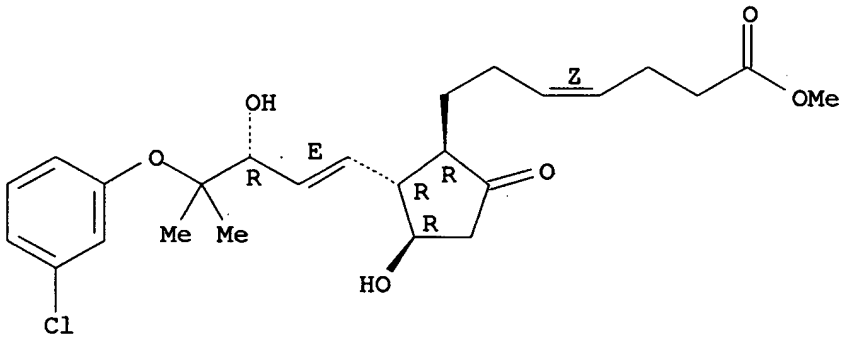



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L2 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4-Heptenoic acid, 7-[2-[4-(3-chlorophenoxy)-3-hydroxy-4-methyl-1-pentenyl]-3-hydroxy-5-oxocyclopentyl]-, methyl ester, [1R-[1α(Z),2β(1E,3R*),3α]]- (9CI)
MF C25 H33 Cl O6

Absolute stereochemistry.
Double bond geometry as shown.

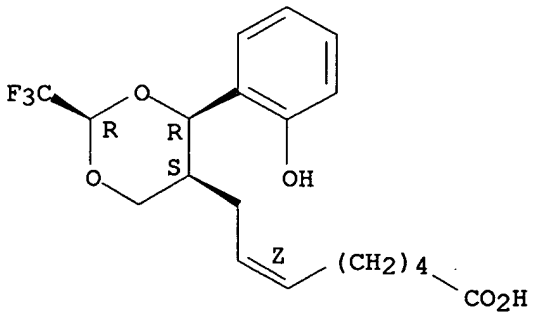



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L2 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 6-Octenoic acid, 8-[4-(2-hydroxyphenyl)-2-(trifluoromethyl)-1,3-dioxan-5-yl]-, [2α,4α,5α(Z)]-, compd. with 1,2-ethanediamine (9CI)
MF C19 H23 F3 O5 . x C2 H8 N2

CM 1

Relative stereochemistry.
Double bond geometry as shown.




CM 2

$H_2N-CH_2-CH_2-NH_2$

ALL ANSWERS HAVE BEEN SCANNED

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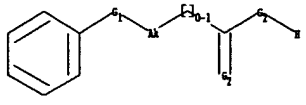
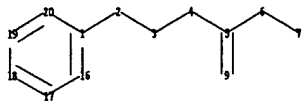




chain nodes :
2 3 4 5 6 7 9
ring nodes :

1 16 17 18 19 20
chain bonds :
1-2 2-3 3-4 4-5 5-6 5-9 6-7
ring bonds :
1-16 1-20 16-17 17-18 18-19 19-20
exact/norm bonds :
1-2 2-3 3-4 5-6 5-9 6-7
exact bonds :
4-5
normalized bonds :
1-16 1-20 16-17 17-18 18-19 19-20

G1:CH2,O,S,N

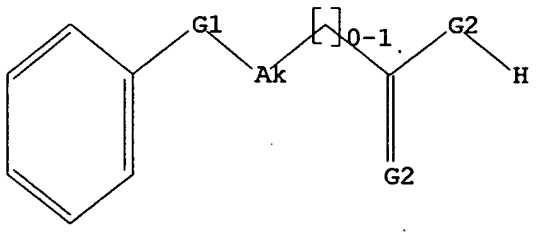
G2:O,S

Hydrogen count :
4:>= minimum 2
Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 16:Atom
17:Atom 18:Atom 19:Atom 20:Atom
Generic attributes :
3:
Type of chain : Linear
Saturation : Unsaturated

Element Count :
Node 3: Limited
C,C5-12

L4 STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4 STR




G1 CH2,O,S,N
G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> search l4 sss sam
SAMPLE SEARCH INITIATED 05:57:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 958287 TO ITERATE

0.2% PROCESSED 2000 ITERATIONS 0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 19113707 TO 19217773
PROJECTED ANSWERS: 0 TO 0

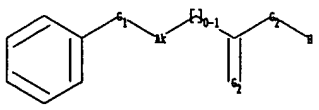
L5 0 SEA SSS SAM L4

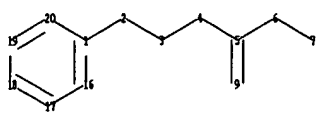
=> d cost

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CONNECT CHARGES | 5.32 | 5.47 |
| NETWORK CHARGES | 0.84 | 0.90 |
| SEARCH CHARGES | 4.76 | 4.76 |
| FULL ESTIMATED COST | 10.92 | 11.13 |

IN FILE 'REGISTRY' AT 05:59:18 ON 01 DEC 2006

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10025947\10025947 Ph limited clm 80 8.9.06.str





chain nodes :
2 3 4 5 6 7 9
ring nodes :
1 16 17 18 19 20
chain bonds :
1-2 2-3 3-4 4-5 5-6 5-9 6-7

ring bonds :
1-16 1-20 16-17 17-18 18-19 19-20
exact/norm bonds :
1-2 2-3 3-4 5-6 5-9 6-7
exact bonds :
4-5
normalized bonds :
1-16 1-20 16-17 17-18 18-19 19-20

G1:CH2,O,S,N

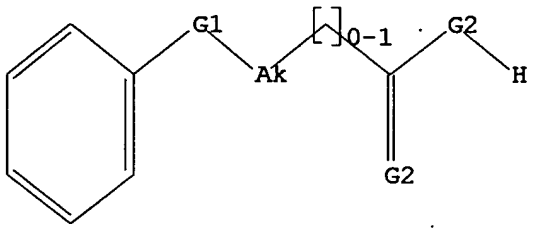
G2:O,S

Hydrogen count :
4:>= minimum 2
Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 16:Atom
17:Atom 18:Atom 19:Atom 20:Atom
Generic attributes :
3:
Type of chain : Linear
Saturation : Unsaturated

Element Count :
Node 3: Limited
C,C5-12

L6 STRUCTURE UPLOADED

=> d l6
L6 HAS NO ANSWERS
L6 STR




G1 CH2,O,S,N
G2 O,S

Structure attributes must be viewed using STN Express query preparation.

=> search l6 sss sam
SAMPLE SEARCH INITIATED 05:59:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 958287 TO ITERATE

0.2% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

```
FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:     19113707 TO 19217773
PROJECTED ANSWERS:               0 TO        0

L7            0 SEA SSS SAM L6

=> search l6 sss full
FULL SEARCH INITIATED 06:00:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 19162978 TO ITERATE

  0.7% PROCESSED   125825 ITERATIONS                                 7 ANSWERS

  1.4% PROCESSED   260970 ITERATIONS  (     3 INCOMPLETE)          16 ANSWERS

  2.0% PROCESSED   388633 ITERATIONS  (     3 INCOMPLETE)          28 ANSWERS

  3.3% PROCESSED   624718 ITERATIONS  (     4 INCOMPLETE)          34 ANSWERS

  3.7% PROCESSED   705315 ITERATIONS  (     4 INCOMPLETE)          36 ANSWERS

  4.2% PROCESSED   797752 ITERATIONS  (     4 INCOMPLETE)          37 ANSWERS

  4.7% PROCESSED   902887 ITERATIONS  (     6 INCOMPLETE)          91 ANSWERS

  5.0% PROCESSED   962254 ITERATIONS  (     6 INCOMPLETE)          91 ANSWERS

  5.2% PROCESSED  1000000 ITERATIONS  (     6 INCOMPLETE)          91 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.02.25

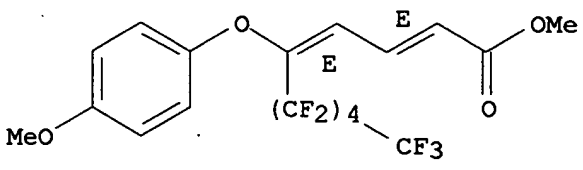
FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:     19162978 TO 19162978
PROJECTED ANSWERS:            1618 TO     1868

L8           91 SEA SSS FUL L6

=> d scan

L8   91 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN   2,4-Decadienoic acid, 6,6,7,7,8,8,9,9,10,10,10-undecafluoro-5-(4-
     methoxyphenoxy)-, methyl ester, (2E,4E)- (9CI)
MF   C18 H13 F11 O4

Double bond geometry as shown.
```

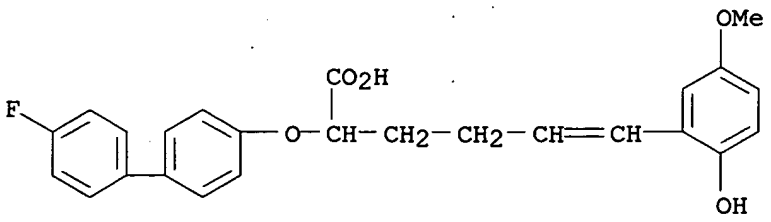



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

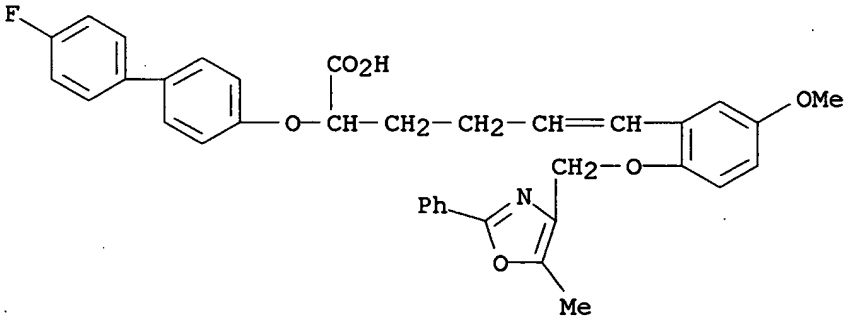
L8   91 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
```

IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-6-(2-hydroxy-5-methoxyphenyl)- (9CI)
MF C25 H23 F O5



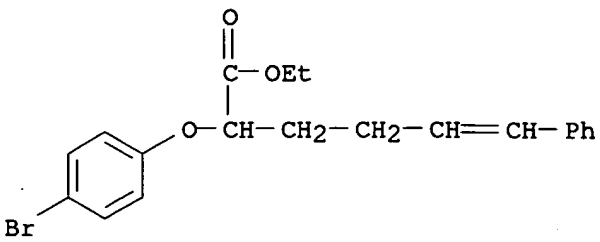
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-6-[5-methoxy-2-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]phenyl]- (9CI)
MF C36 H32 F N O6



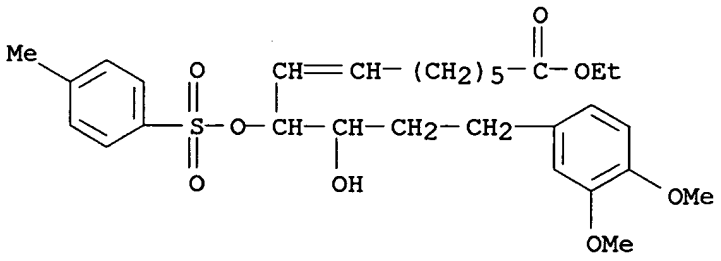
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-(4-bromophenoxy)-6-phenyl-, ethyl ester (9CI)
MF C20 H21 Br O3



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 7-Dodecenoic acid, 12-(3,4-dimethoxyphenyl)-10-hydroxy-9-[[(4-methylphenyl)sulfonyl]oxy]-, ethyl ester (9CI)
MF C29 H40 O8 S

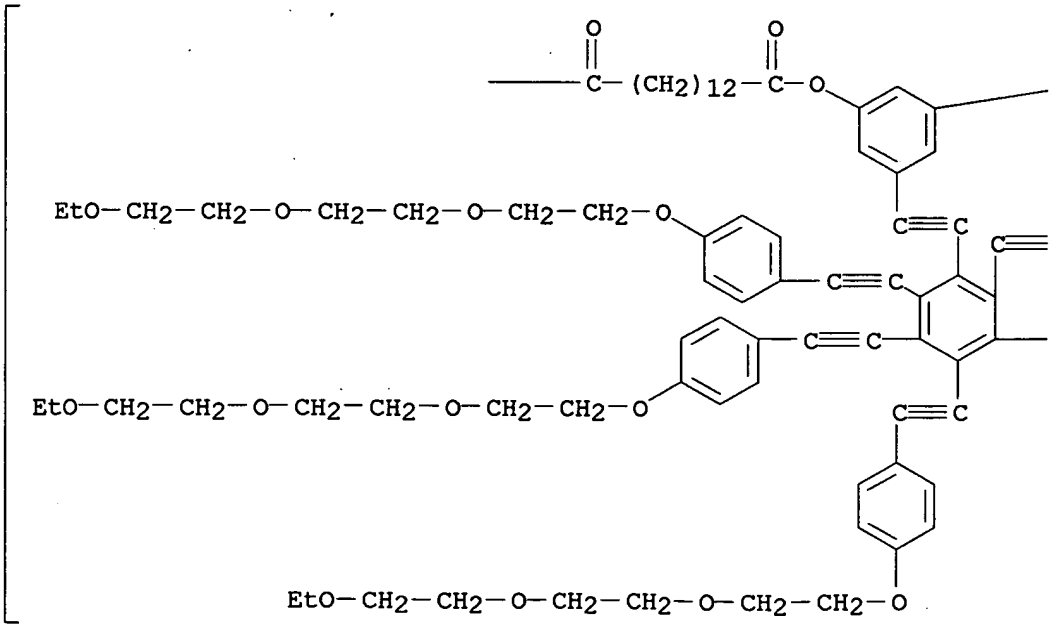


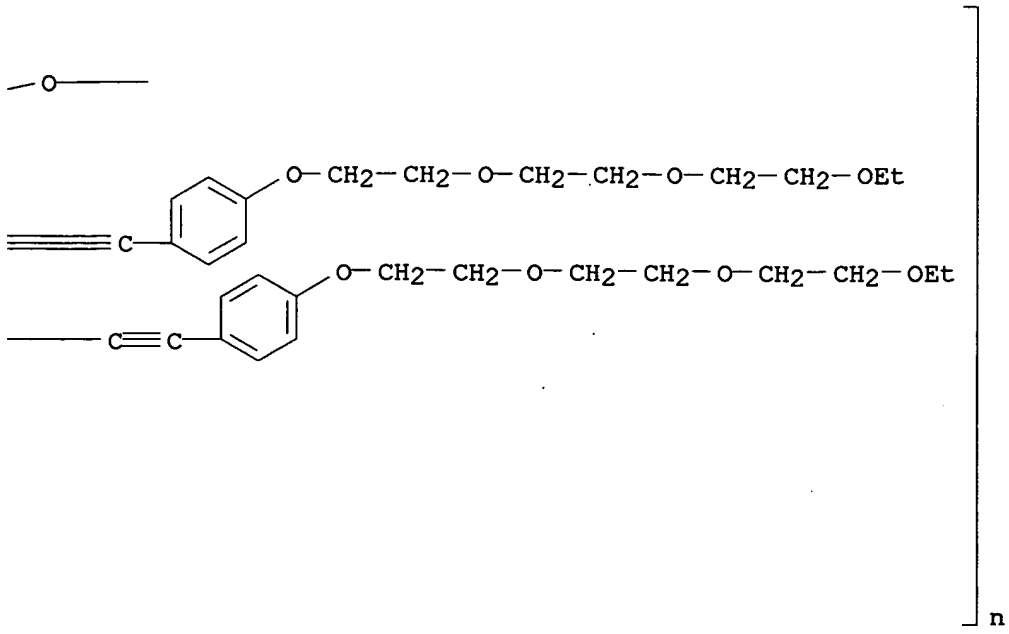
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN Poly[oxy[5-[[pentakis[[4-[2-[2-(2-ethoxyethoxy)ethoxy]ethoxy]phenyl]ethynyl]phenyl]ethynyl]-1,3-phenylene]oxy(1,14-dioxo-1,14-tetradecanediyl)] (9CI)
MF (C108 H132 O24)n
CI PMS

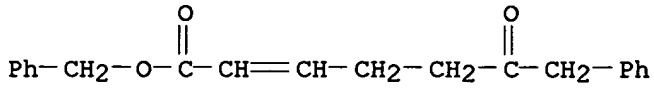
**RELATED POLYMERS AVAILABLE WITH POLYLINK**

PAGE 1-A



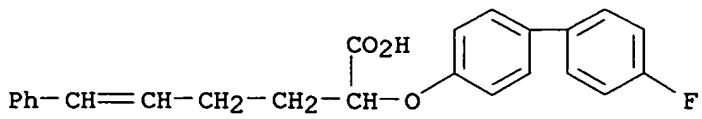


L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Heptenoic acid, 6-oxo-7-phenyl-, phenylmethyl ester (9CI)
MF C20 H20 O3



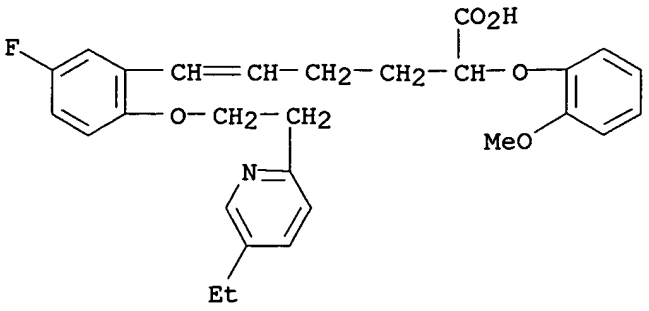
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-6-phenyl- (9CI)
MF C24 H21 F O3



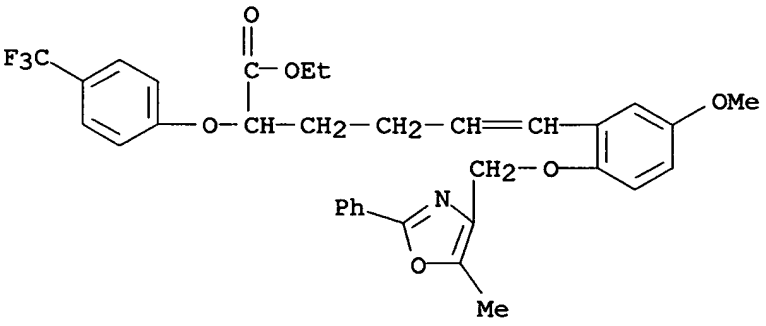
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[2-[2-(5-ethyl-2-pyridinyl)ethoxy]-5-fluorophenyl]-2-(2-methoxyphenoxy)- (9CI)
MF C28 H30 F N O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-methoxy-2-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]phenyl]-2-[4-(trifluoromethyl)phenoxy]-, ethyl ester (9CI)
MF C33 H32 F3 N O6

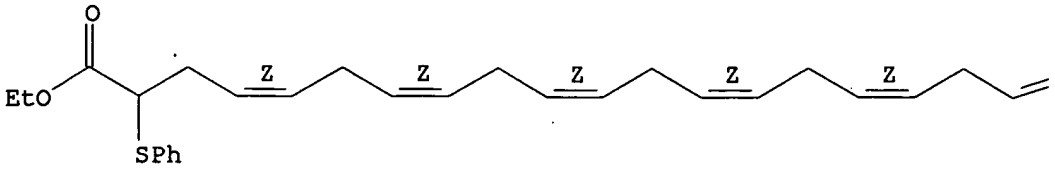


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C30 H40 O2 S

Double bond geometry as shown.

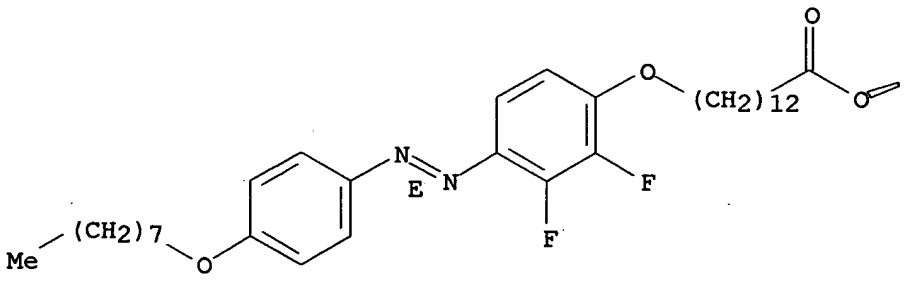




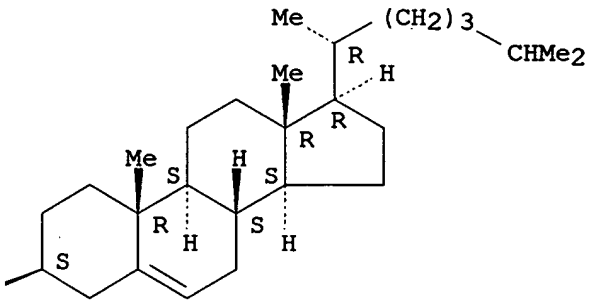

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN Cholest-5-en-3-ol (3β)-, 13-[2,3-difluoro-4-[(1E)-[4-(octyloxy)phenyl]azo]phenoxy]tridecanoate (9CI)
MF C60 H92 F2 N2 O4

Absolute stereochemistry.
Double bond geometry as shown.



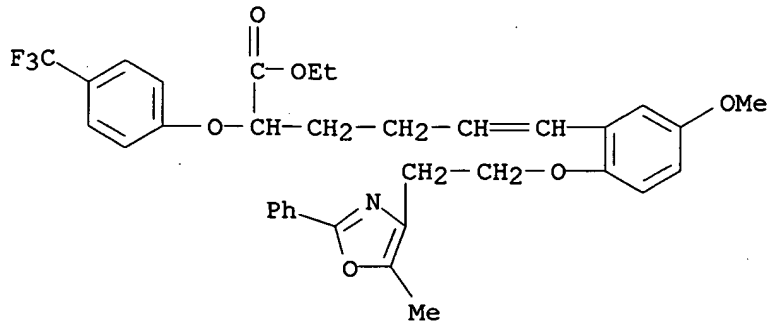




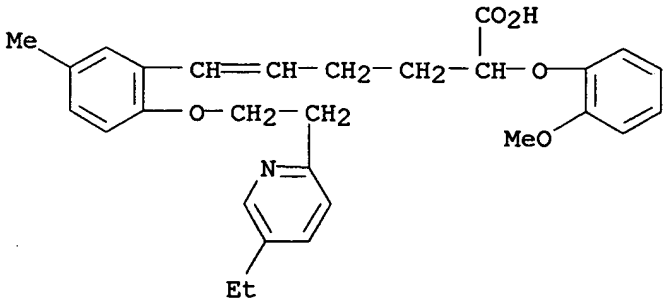

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-methoxy-2-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-2-[4-(trifluoromethyl)phenoxy]-, ethyl ester (9CI)
MF C34 H34 F3 N O6



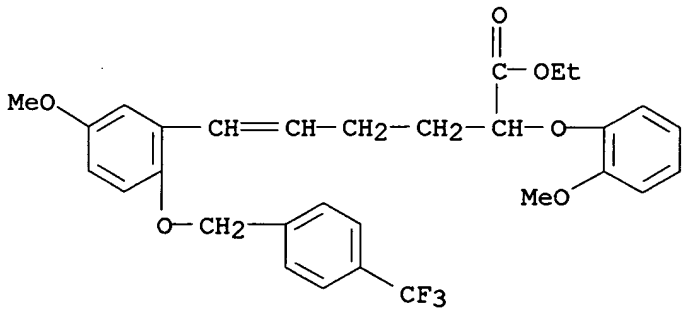
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[2-[2-(5-ethyl-2-pyridinyl)ethoxy]-5-methylphenyl]-2-(2-methoxyphenoxy)- (9CI)
MF C29 H33 N O5



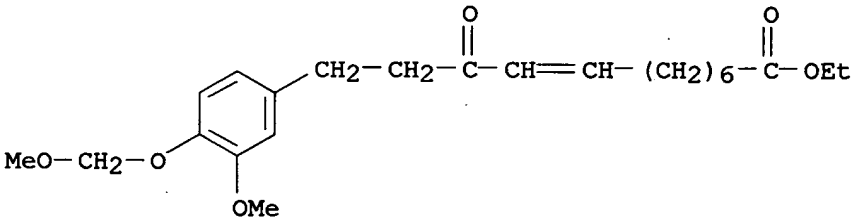
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-(2-methoxyphenoxy)-6-[5-methoxy-2-[[4-(trifluoromethyl)phenyl]methoxy]phenyl]-, ethyl ester (9CI)
MF C30 H31 F3 O6



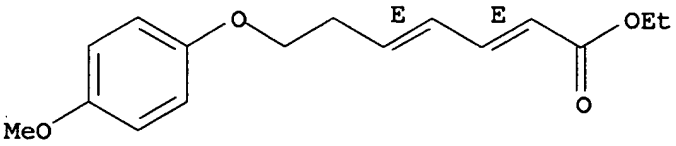
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 8-Dodecenoic acid, 12-[3-methoxy-4-(methoxymethoxy)phenyl]-10-oxo-, ethyl ester (9CI)
MF C23 H34 O6



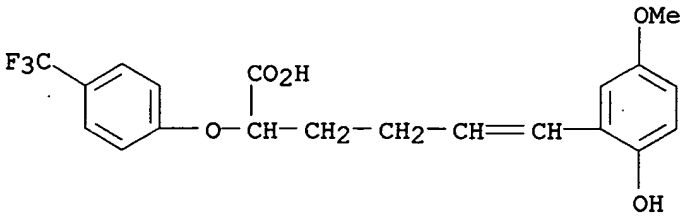
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2,4-Heptadienoic acid, 7-(4-methoxyphenoxy)-, ethyl ester, (2E,4E)- (9CI)
MF C16 H20 O4

Double bond geometry as shown.



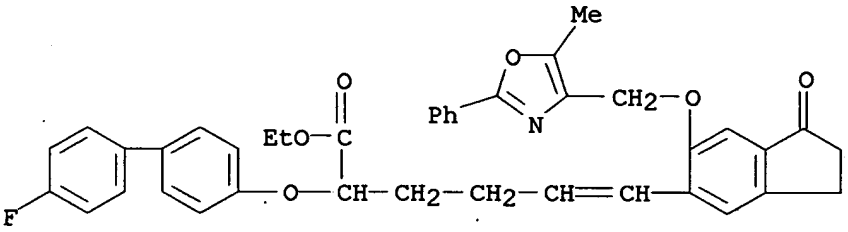
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-(2-hydroxy-5-methoxyphenyl)-2-[4-(trifluoromethyl)phenoxy]- (9CI)
MF C20 H19 F3 O5



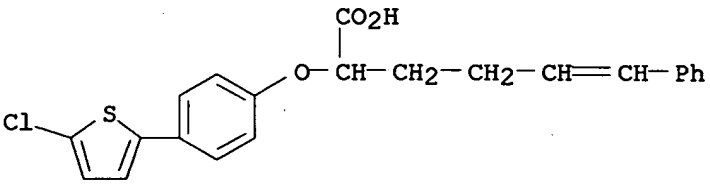
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[2,3-dihydro-6-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]-1-oxo-1H-inden-5-yl]-2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-, ethyl ester (9CI)
MF C40 H36 F N O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

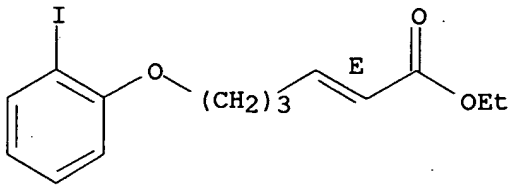
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[4-(5-chloro-2-thienyl)phenoxy]-6-phenyl- (9CI)
MF C22 H19 Cl O3 S



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Hexenoic acid, 6-(2-iodophenoxy)-, ethyl ester, (2E)- (9CI)
MF C14 H17 I O3

Double bond geometry as shown.

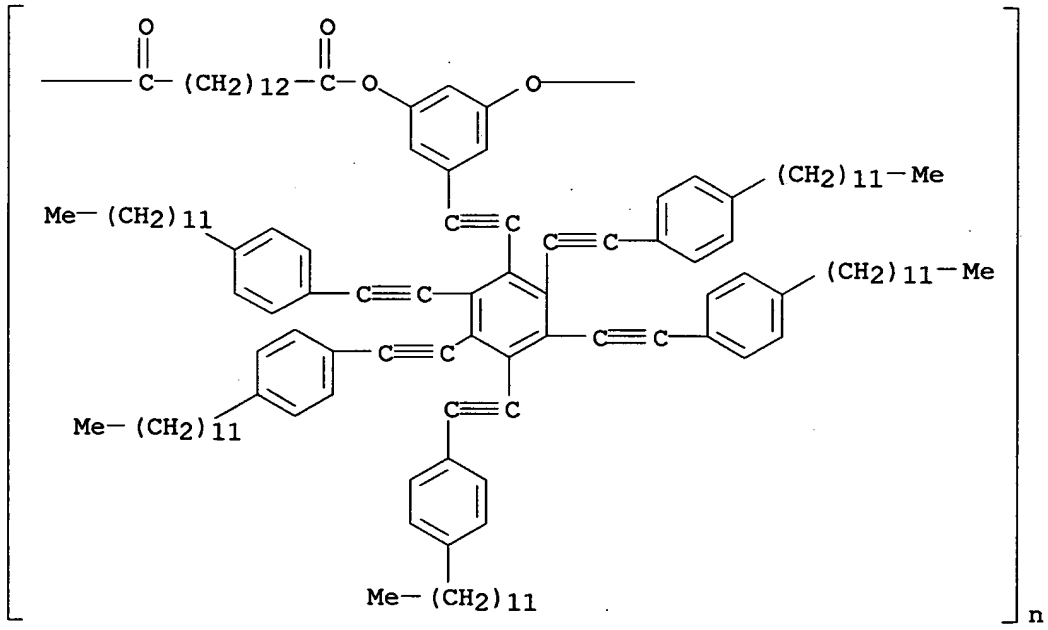


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

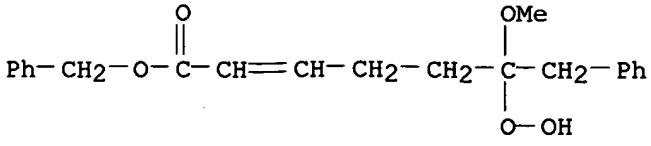
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN Poly[oxy[5-[[pentakis[(4-dodecylphenyl)ethynyl]phenyl]ethynyl]-1,3-phenylene]oxy(1,14-dioxo-1,14-tetradecanediyl)] (9CI)
MF (C128 H172 O4)n
CI PMS

**RELATED POLYMERS AVAILABLE WITH POLYLINK**

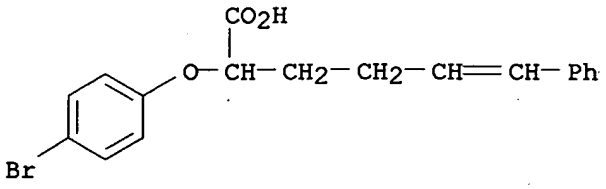


L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Heptenoic acid, 6-hydroperoxy-6-methoxy-7-phenyl-, phenylmethyl ester (9CI)
MF C21 H24 O5



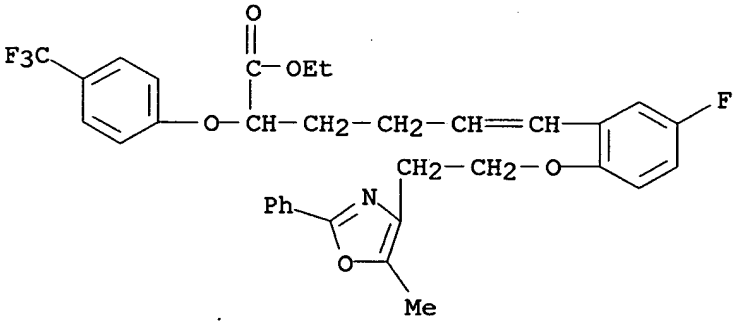
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-(4-bromophenoxy)-6-phenyl- (9CI)
MF C18 H17 Br O3



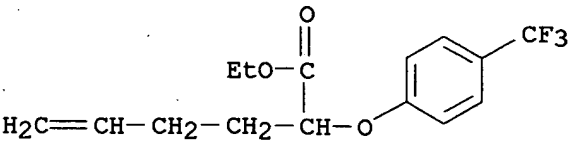
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-fluoro-2-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-2-[4-(trifluoromethyl)phenoxy]-, ethyl ester (9CI)
MF C33 H31 F4 N O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

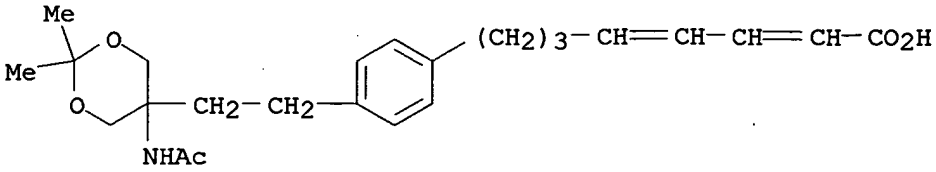
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[4-(trifluoromethyl)phenoxy]-, ethyl ester (9CI)
MF C15 H17 F3 O3



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2,4-Octadienoic acid, 8-[4-[2-[5-(acetylamino)-2,2-dimethyl-1,3-dioxan-5-

yl]ethyl]phenyl]- (9CI)
MF C24 H33 N O5

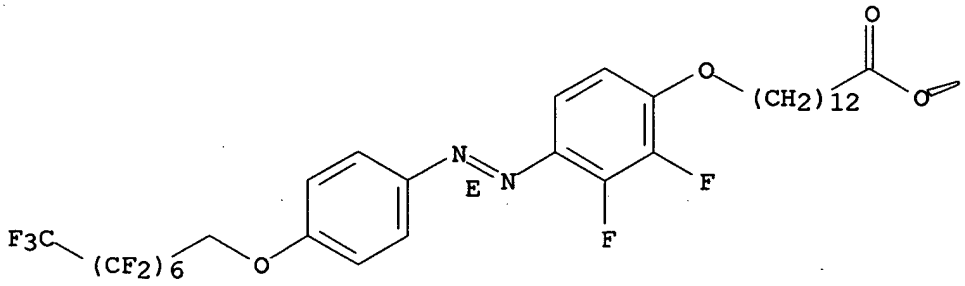


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

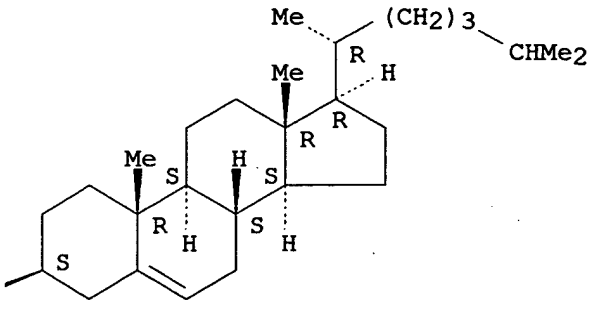
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN Cholest-5-en-3-ol (3β)-, 13-[2,3-difluoro-4-[(1E)-[4-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]phenyl]azo]phenoxy]tridecanoate (9CI)
MF C60 H77 F17 N2 O4

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A

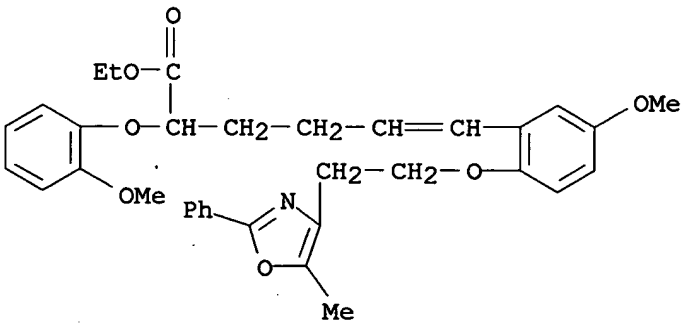


PAGE 1-B



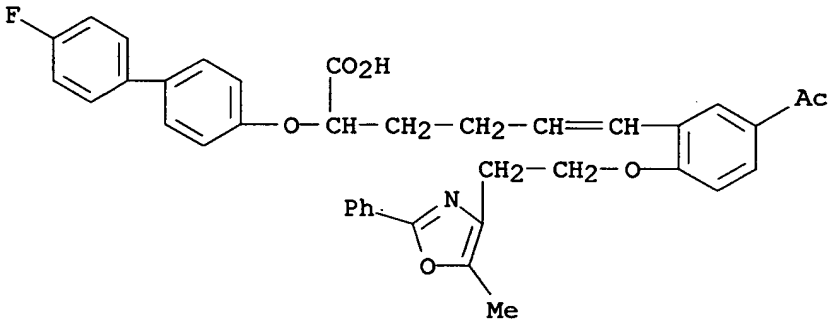
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-methoxy-2-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-2-(2-methoxyphenoxy)-, ethyl ester (9CI)
MF C34 H37 N O7



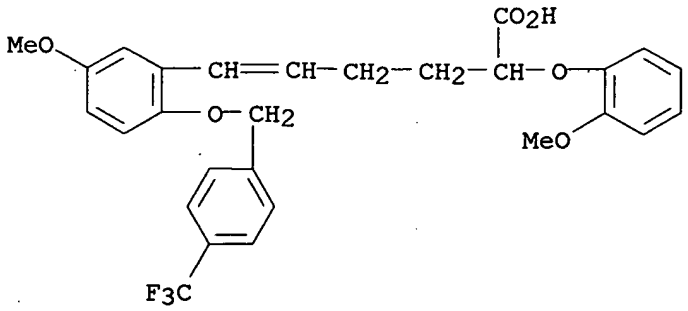
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-acetyl-2-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]- (9CI)
MF C38 H34 F N O6



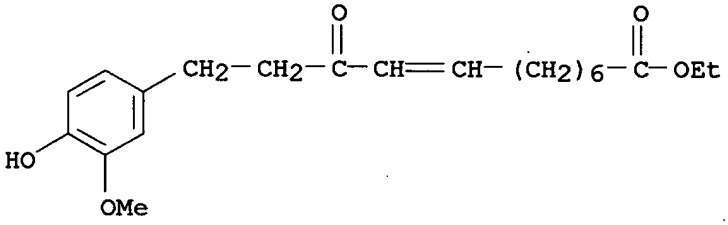
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-(2-methoxyphenoxy)-6-[5-methoxy-2-[[4-(trifluoromethyl)phenyl]methoxy]phenyl]- (9CI)
MF C28 H27 F3 O6

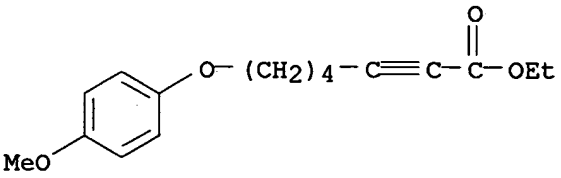


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 8-Dodecenoic acid, 12-(4-hydroxy-3-methoxyphenyl)-10-oxo-, ethyl ester (9CI)
MF C21 H30 O5

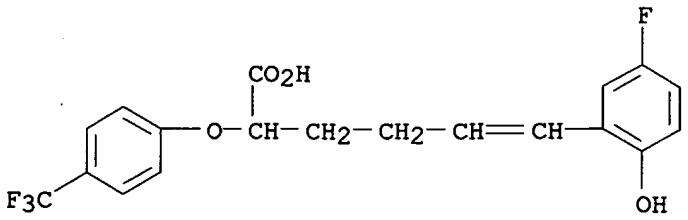


L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Heptynoic acid, 7-(4-methoxyphenoxy)-, ethyl ester (9CI)
MF C16 H20 O4



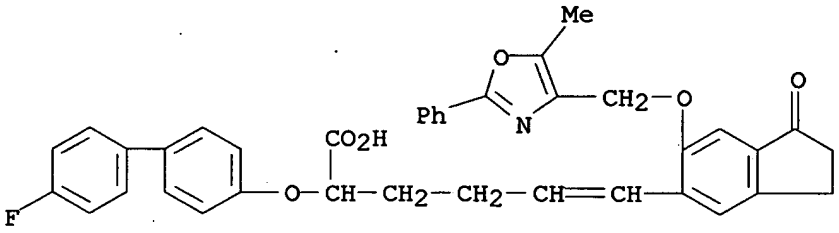
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-(5-fluoro-2-hydroxyphenyl)-2-[4-(trifluoromethyl)phenoxy]- (9CI)
MF C19 H16 F4 O4



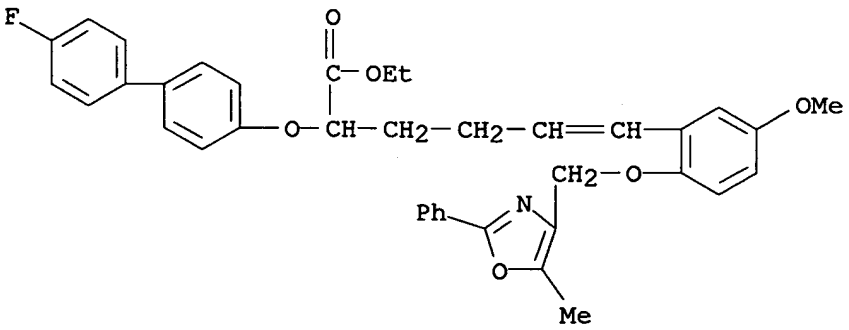
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[2,3-dihydro-6-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]-1-oxo-1H-inden-5-yl]-2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]- (9CI)
MF C38 H32 F N O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

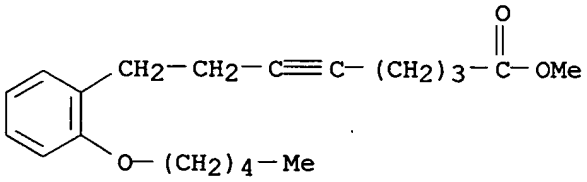
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-6-[5-methoxy-2-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]phenyl]-, ethyl ester (9CI)
MF C38 H36 F N O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

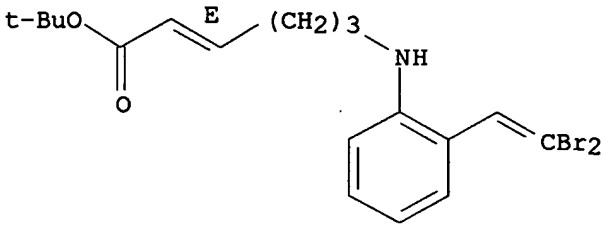
IN 5-Octynoic acid, 8-[2-(pentyloxy)phenyl]-, methyl ester (9CI)
MF C20 H28 O3



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Hexenoic acid, 6-[[2-(2,2-dibromoethenyl)phenyl]amino]-, 1,1-dimethylethyl ester, (2E)- (9CI)
MF C18 H23 Br2 N O2

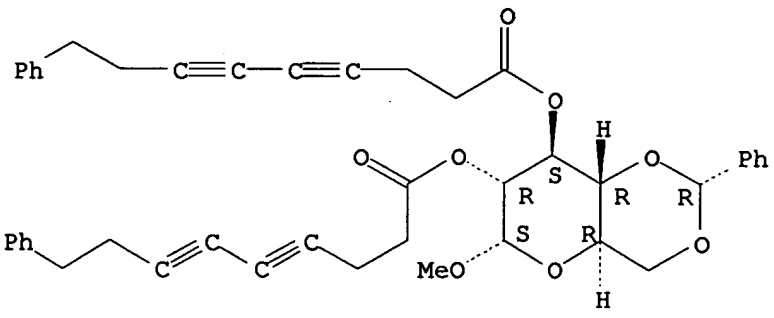
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

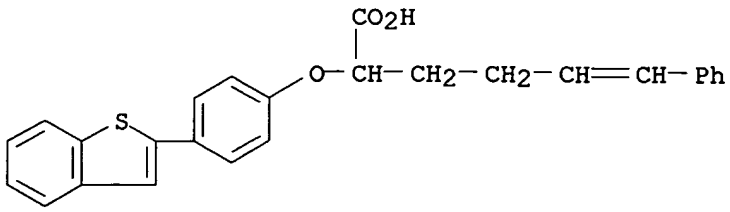
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN α-D-Glucopyranoside, methyl 4,6-O-[(R)-phenylmethylene]-, bis(9-phenyl-4,6-nonadiynoate) (9CI)
MF C44 H42 O8

Absolute stereochemistry.



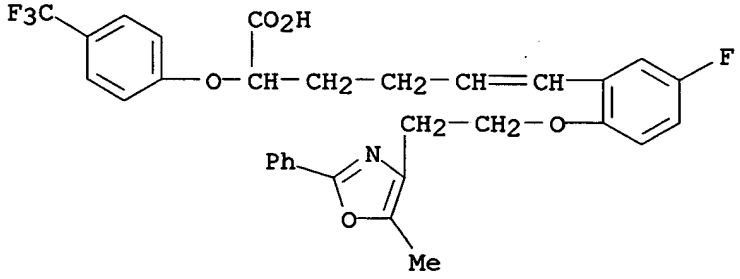
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-(4-benzo[b]thien-2-ylphenoxy)-6-phenyl- (9CI)
MF C26 H22 O3 S



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

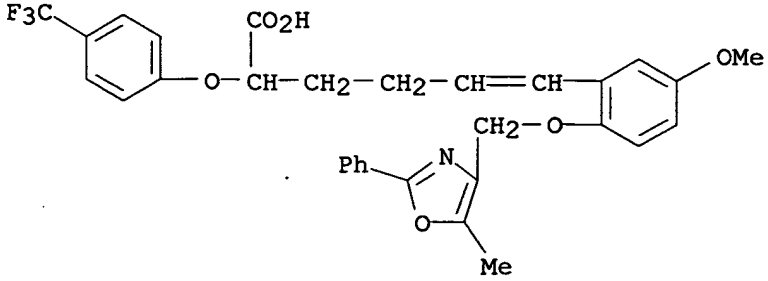
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-fluoro-2-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-2-[4-(trifluoromethyl)phenoxy]- (9CI)
MF C31 H27 F4 N O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

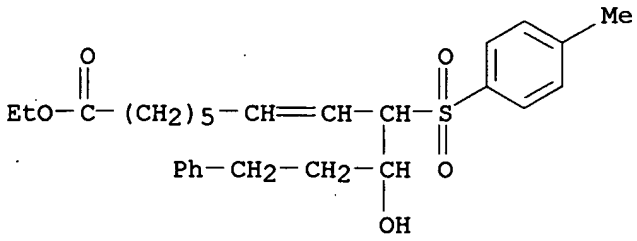
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-methoxy-2-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]phenyl]-2-[4-(trifluoromethyl)phenoxy]- (9CI)
MF C31 H28 F3 N O6

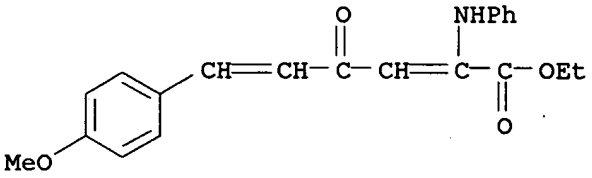


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 7-Dodecenoic acid, 10-hydroxy-9-[(4-methylphenyl)sulfonyl]-12-phenyl-, ethyl ester (9CI)
MF C27 H36 O5 S

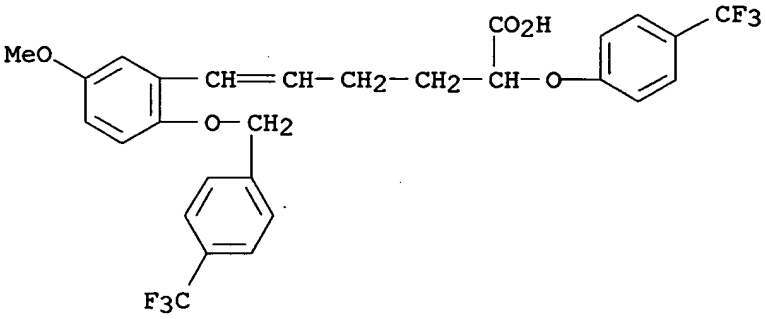


L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C21 H21 N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

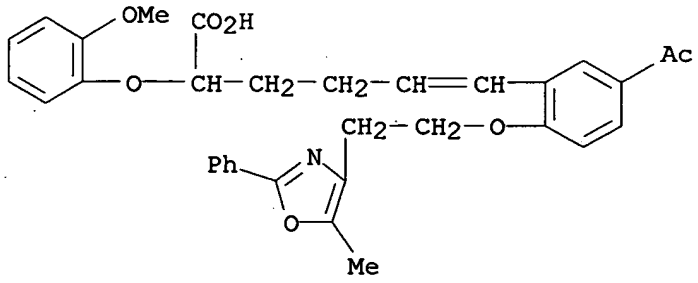
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-methoxy-2-[[4-(trifluoromethyl)phenyl]methoxy]phenyl]-2-[4-(trifluoromethyl)phenoxy]- (9CI)
MF C28 H24 F6 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

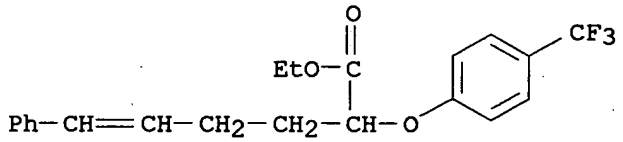
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 5-Hexenoic acid, 6-[5-acetyl-2-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-2-(2-methoxyphenoxy)- (9CI)
MF C33 H33 N O7



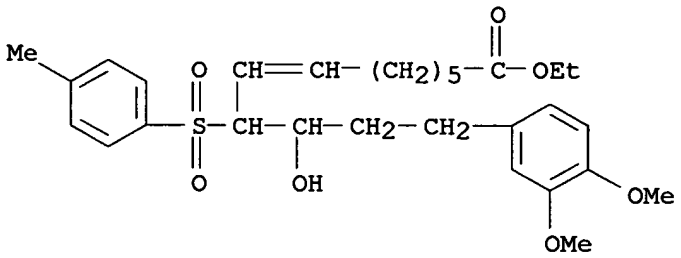
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-phenyl-2-[4-(trifluoromethyl)phenoxy]-, ethyl ester (9CI)
MF C21 H21 F3 O3



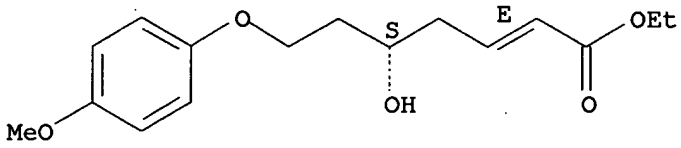
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 7-Dodecenoic acid, 12-(3,4-dimethoxyphenyl)-10-hydroxy-9-[(4-methylphenyl)sulfonyl]-, ethyl ester (9CI)
MF C29 H40 O7 S



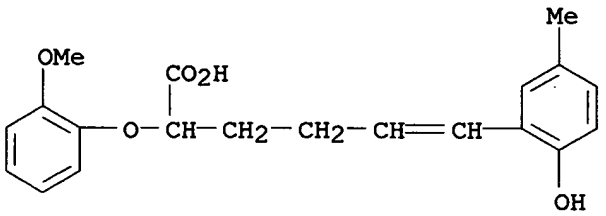
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Heptenoic acid, 5-hydroxy-7-(4-methoxyphenoxy)-, ethyl ester, (2E,5S)-(9CI)
MF C16 H22 O5

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



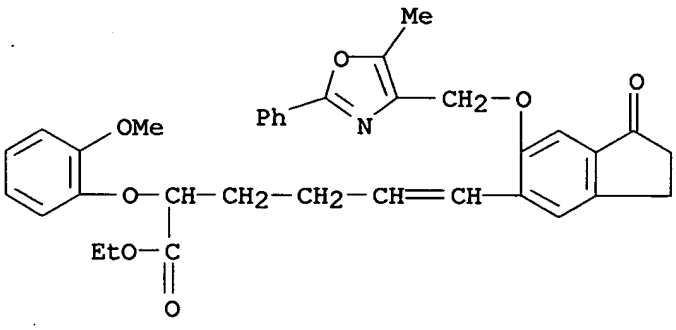

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-(2-hydroxy-5-methylphenyl)-2-(2-methoxyphenoxy)- (9CI)
MF C20 H22 O5



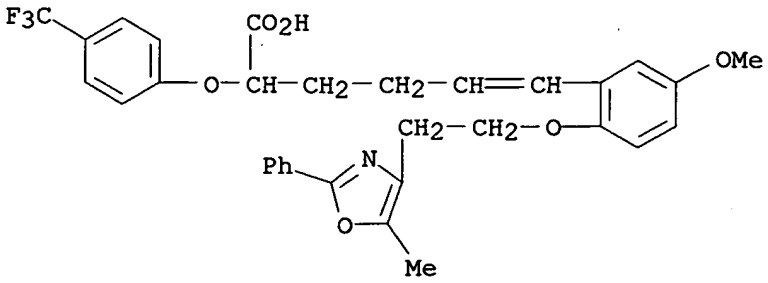

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[2,3-dihydro-6-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]-1-oxo-1H-inden-5-yl]-2-(2-methoxyphenoxy)-, ethyl ester (9CI)
MF C35 H35 N O7



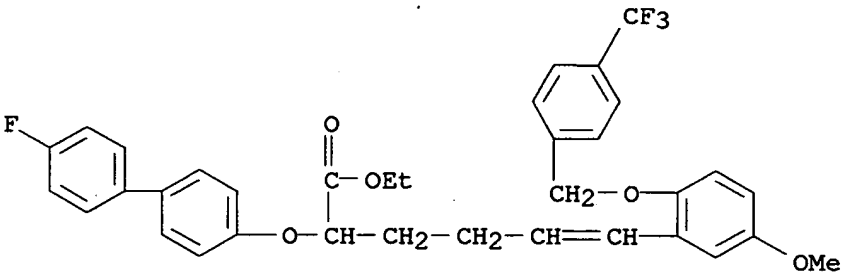

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-methoxy-2-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-2-[4-(trifluoromethyl)phenoxy]- (9CI)
MF C32 H30 F3 N O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

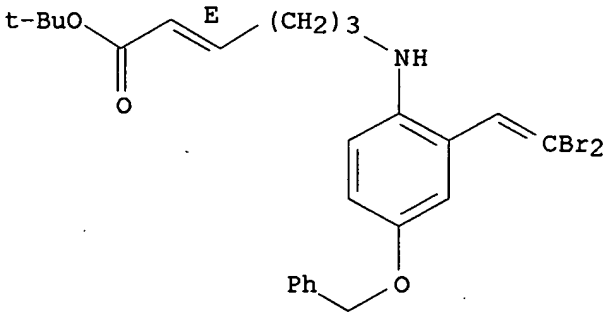
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-6-[5-methoxy-2-[[4-(trifluoromethyl)phenyl]methoxy]phenyl]-, ethyl ester (9CI)
MF C35 H32 F4 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Hexenoic acid, 6-[[2-(2,2-dibromoethenyl)-4-(phenylmethoxy)phenyl]amino]-, 1,1-dimethylethyl ester, (2E)- (9CI)
MF C25 H29 Br2 N O3

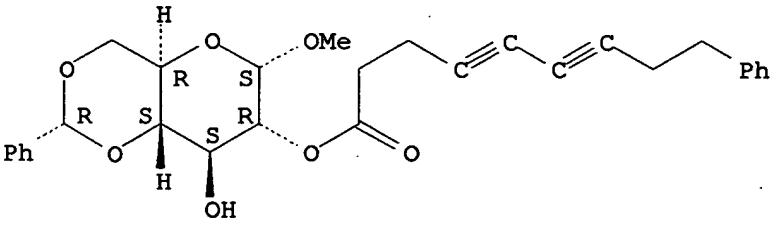
Double bond geometry as shown.



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

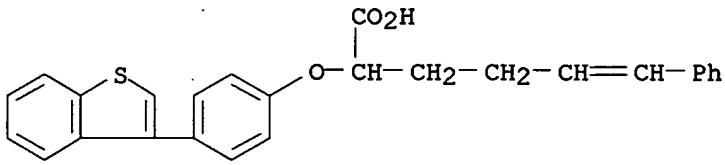
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN α-D-Glucopyranoside, methyl 4,6-O-[(R)-phenylmethylene]-, 2-(9-phenyl-4,6-nonadiynoate) (9CI)
MF C29 H30 O7

Absolute stereochemistry.



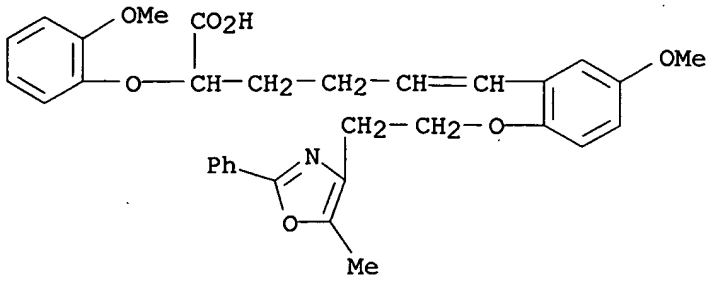
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-(4-benzo[b]thien-3-ylphenoxy)-6-phenyl- (9CI)
MF C26 H22 O3 S



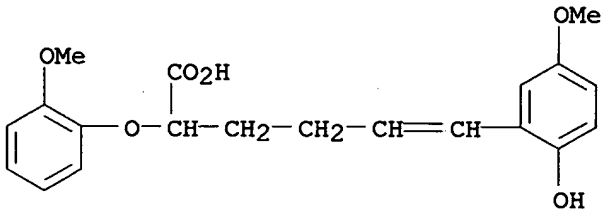
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-methoxy-2-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-2-(2-methoxyphenoxy)- (9CI)
MF C32 H33 N O7



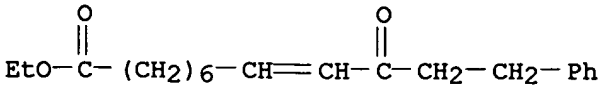
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-(2-hydroxy-5-methoxyphenyl)-2-(2-methoxyphenoxy)- (9CI)
MF C20 H22 O6

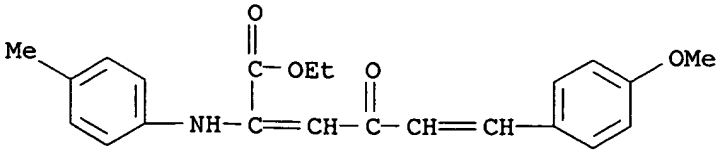


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 8-Dodecenoic acid, 10-oxo-12-phenyl-, ethyl ester (9CI)
MF C20 H28 O3

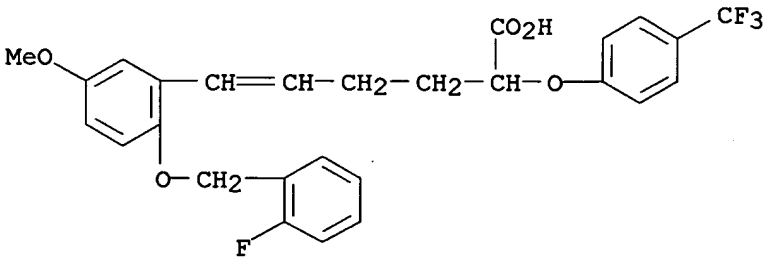


L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C22 H23 N O4



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

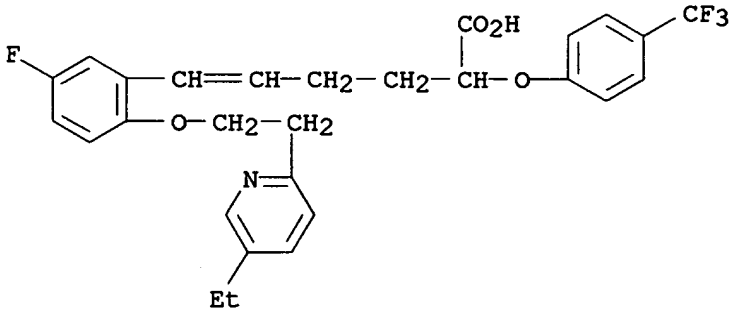
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[2-[(2-fluorophenyl)methoxy]-5-methoxyphenyl]-2-[4-(trifluoromethyl)phenoxy]- (9CI)
MF C27 H24 F4 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

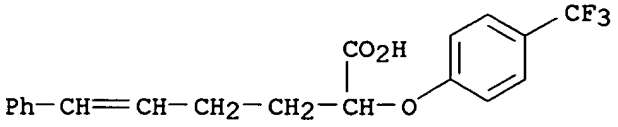
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[2-[2-(5-ethyl-2-pyridinyl)ethoxy]-5-fluorophenyl]-2-[4-(trifluoromethyl)phenoxy]- (9CI)
MF C28 H27 F4 N O4



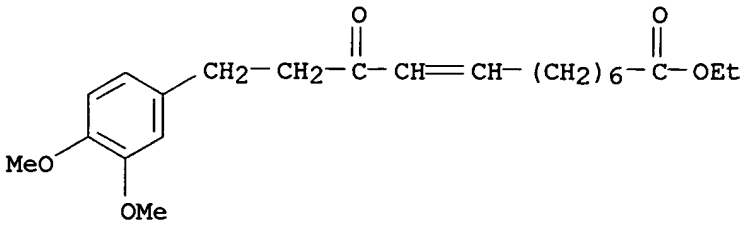
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-phenyl-2-[4-(trifluoromethyl)phenoxy]- (9CI)
MF C19 H17 F3 O3



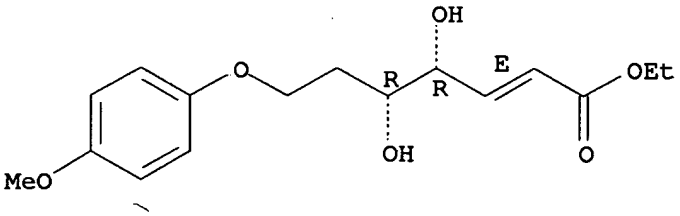
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 8-Dodecenoic acid, 12-(3,4-dimethoxyphenyl)-10-oxo-, ethyl ester (9CI)
MF C22 H32 O5



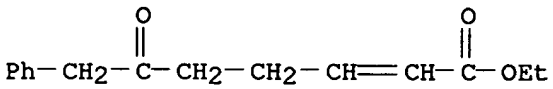
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Heptenoic acid, 4,5-dihydroxy-7-(4-methoxyphenoxy)-, ethyl ester, (2E,4R,5R)- (9CI)
MF C16 H22 O6

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



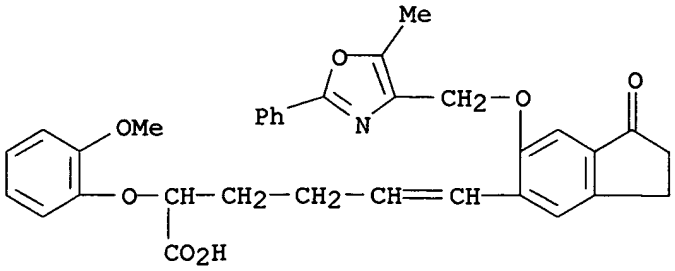
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Heptenoic acid, 6-oxo-7-phenyl-, ethyl ester (9CI)
MF C15 H18 O3



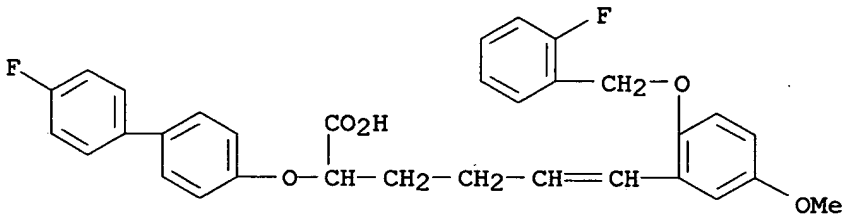
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[2,3-dihydro-6-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]-1-oxo-1H-inden-5-yl]-2-(2-methoxyphenoxy)- (9CI)
MF C33 H31 N O7



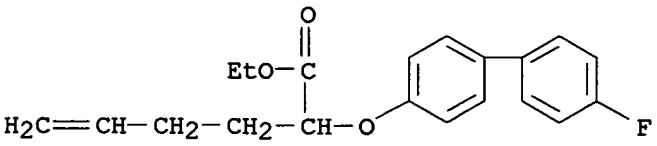
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-6-[2-[(2-fluorophenyl)methoxy]-5-methoxyphenyl]- (9CI)
MF C32 H28 F2 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

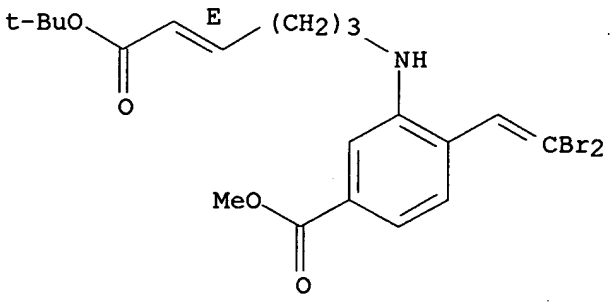
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-, ethyl ester (9CI)
MF C20 H21 F O3



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C20 H25 Br2 N O4

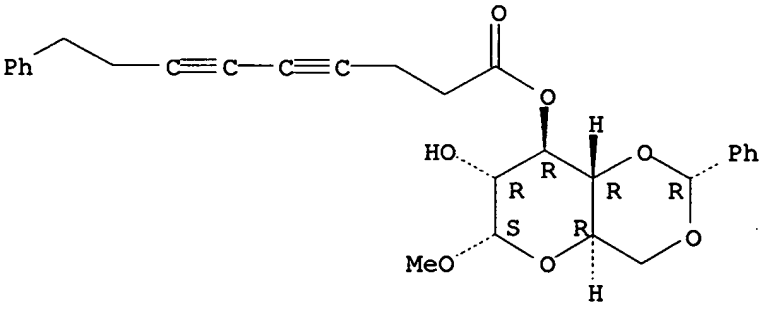
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

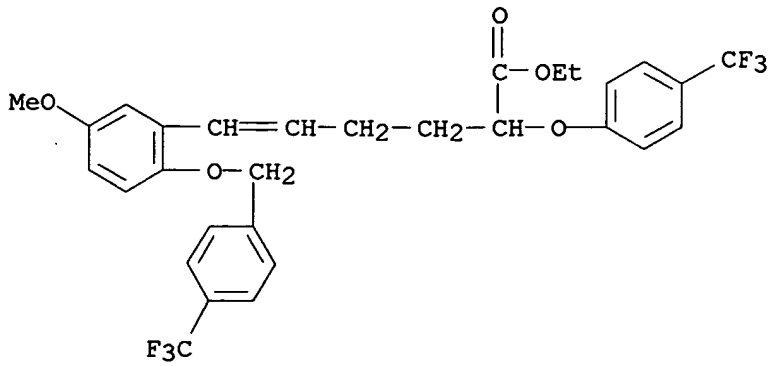
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN α-D-Glucopyranoside, methyl 4,6-O-[(R)-phenylmethylene]-, 3-(9-phenyl-4,6-nonadiynoate) (9CI)
MF C29 H30 O7

Absolute stereochemistry.



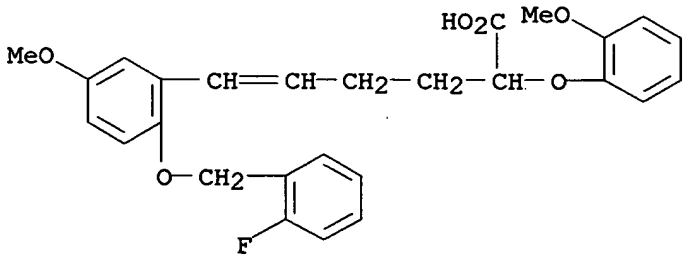

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-methoxy-2-[[4-(trifluoromethyl)phenyl]methoxy]phenyl]-2-[4-(trifluoromethyl)phenoxy]-, ethyl ester (9CI)
MF C30 H28 F6 O5



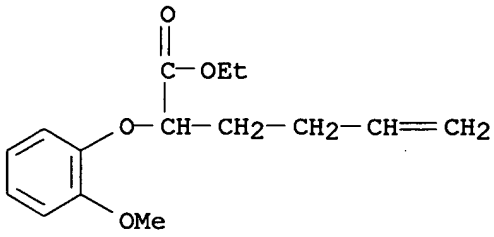
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[2-[(2-fluorophenyl)methoxy]-5-methoxyphenyl]-2-(2-methoxyphenoxy)- (9CI)
MF C27 H27 F O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

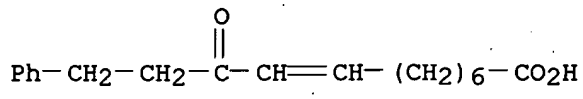
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-(2-methoxyphenoxy)-, ethyl ester (9CI)
MF C15 H20 O4



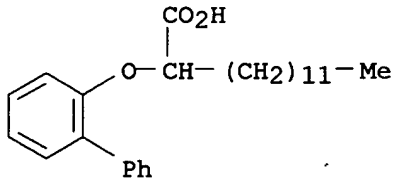
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 8-Dodecenoic acid, 10-oxo-12-phenyl- (9CI)
MF C18 H24 O3

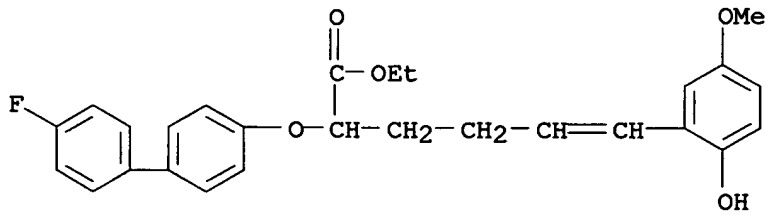


L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN Tetradecanoic acid, 2-([1,1'-biphenyl]-2-yloxy)- (9CI)
MF C26 H36 O3



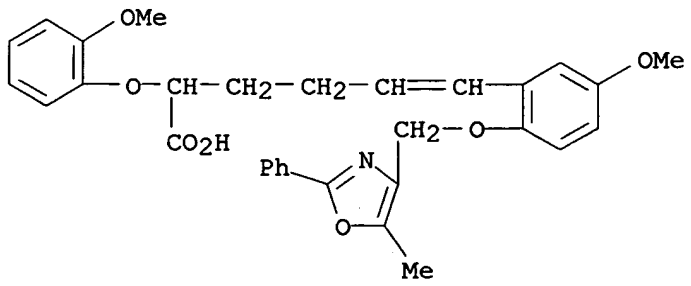
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-6-(2-hydroxy-5-methoxyphenyl)-, ethyl ester (9CI)
MF C27 H27 F O5



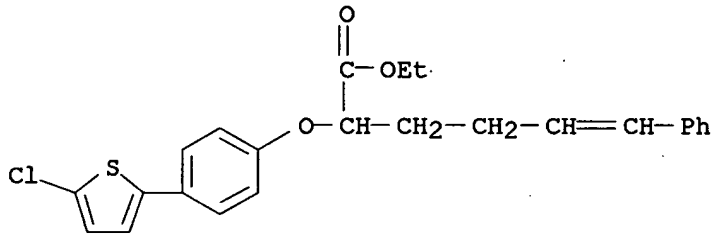
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-methoxy-2-[(5-methyl-2-phenyl-4-oxazolyl)methoxy]phenyl]-2-(2-methoxyphenoxy)- (9CI)
MF C31 H31 N O7



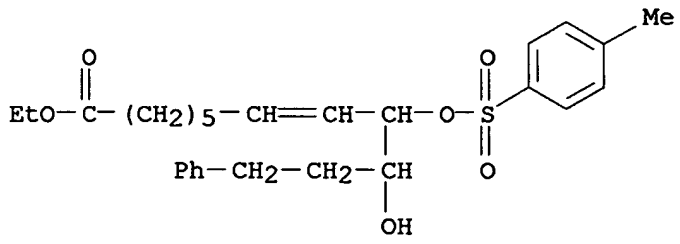
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[4-(5-chloro-2-thienyl)phenoxy]-6-phenyl-, ethyl ester (9CI)
MF C24 H23 Cl O3 S



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 7-Dodecenoic acid, 10-hydroxy-9-[[(4-methylphenyl)sulfonyl]oxy]-12-phenyl-, ethyl ester (9CI)
MF C27 H36 O6 S



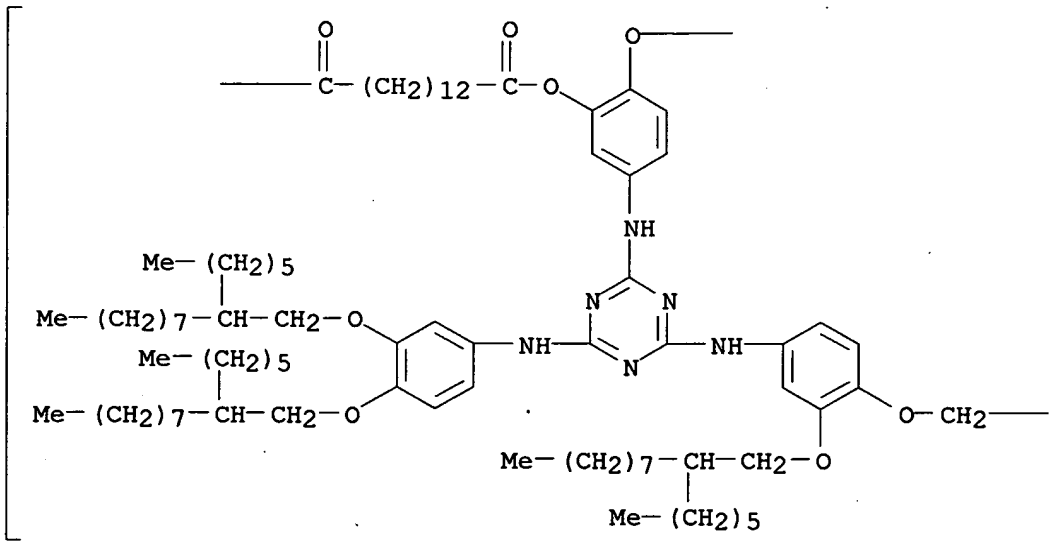
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
ITERATION INCOMPLETE
IN Poly[oxy[4-[[4,6-bis[[3,4-bis[(2-hexyldecyl)oxy]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1,2-phenylene]oxy(1,14-dioxo-1,14-tetradecanediyl)] (9CI)
MF (C99 H168 N6 O8)n

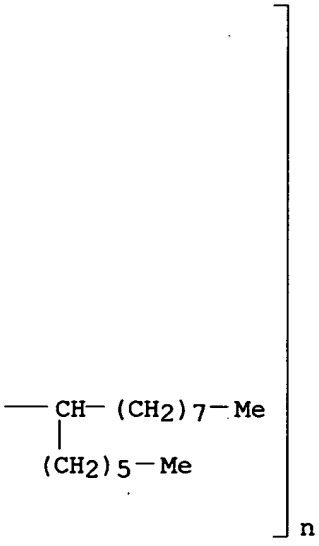
CI PMS

**RELATED POLYMERS AVAILABLE WITH POLYLINK**

PAGE 1-A

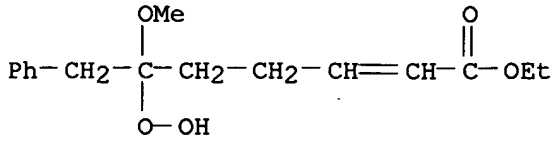


PAGE 1-B



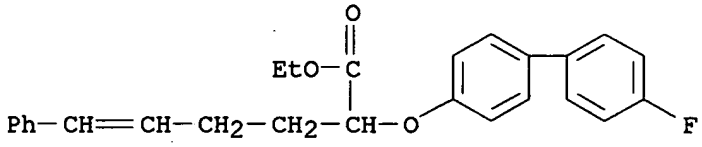
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Heptenoic acid, 6-hydroperoxy-6-methoxy-7-phenyl-, ethyl ester (9CI)
MF C16 H22 O5



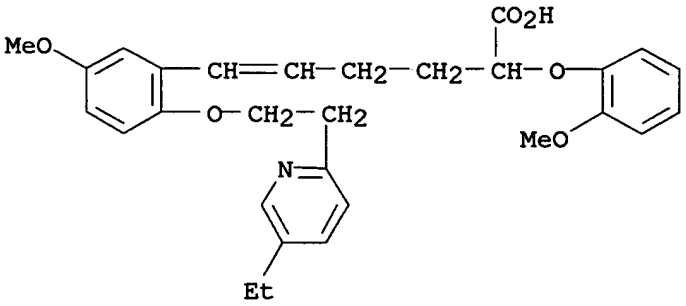
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-6-phenyl-, ethyl ester (9CI)
MF C26 H25 F O3



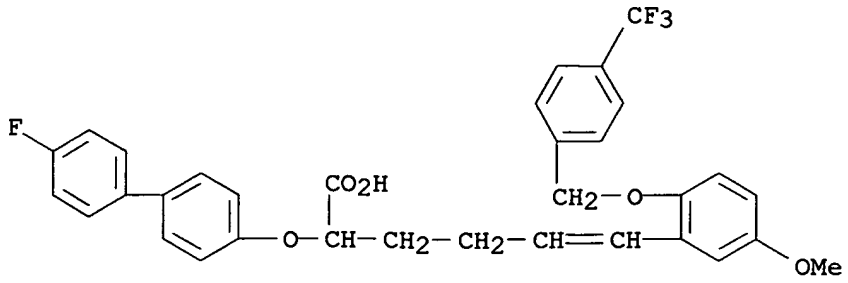
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[2-[2-(5-ethyl-2-pyridinyl)ethoxy]-5-methoxyphenyl]-2-(2-methoxyphenoxy)- (9CI)
MF C29 H33 N O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

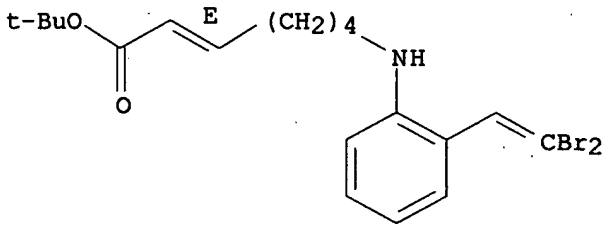
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-6-[5-methoxy-2-[[4-(trifluoromethyl)phenyl]methoxy]phenyl]- (9CI)
MF C33 H28 F4 O5



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

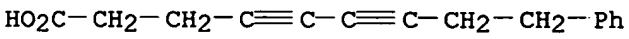
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Heptenoic acid, 7-[[2-(2,2-dibromoethenyl)phenyl]amino]-, 1,1-dimethylethyl ester, (2E)- (9CI)
MF C19 H25 Br2 N O2

Double bond geometry as shown.



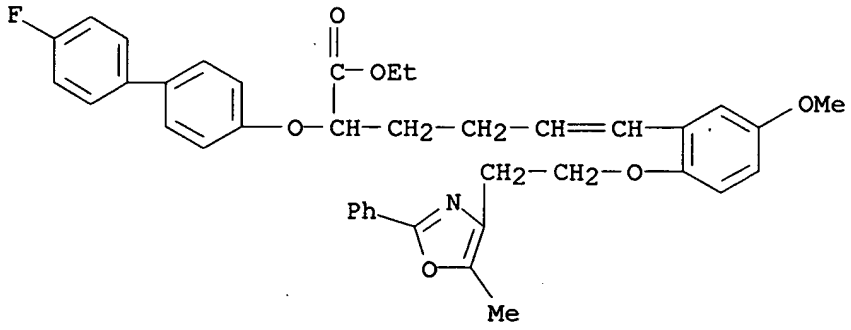
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 4,6-Nonadiynoic acid, 9-phenyl- (9CI)
MF C15 H14 O2



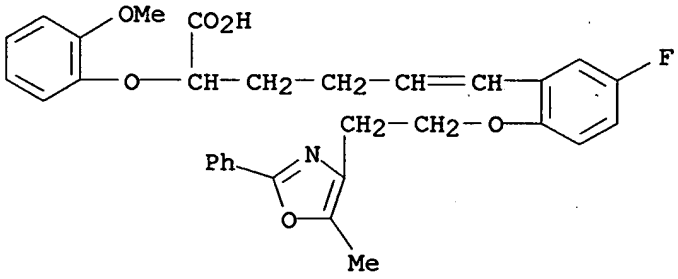
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 2-[(4'-fluoro[1,1'-biphenyl]-4-yl)oxy]-6-[5-methoxy-2-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-, ethyl ester (9CI)
MF C39 H38 F N O6



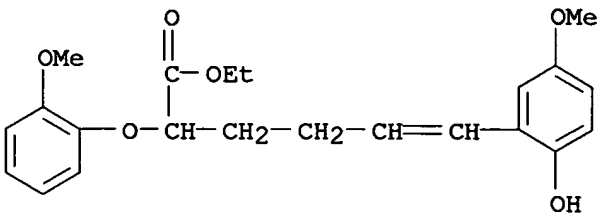
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-[5-fluoro-2-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]phenyl]-2-(2-methoxyphenoxy)- (9CI)
MF C31 H30 F N O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

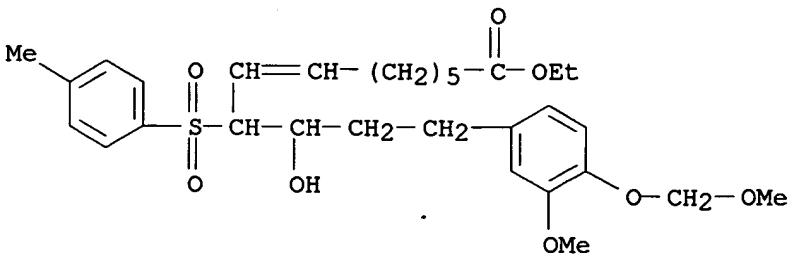
L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 5-Hexenoic acid, 6-(2-hydroxy-5-methoxyphenyl)-2-(2-methoxyphenoxy)-, ethyl ester (9CI)
MF C22 H26 O6



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L8 91 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 7-Dodecenoic acid, 10-hydroxy-12-[3-methoxy-4-(methoxymethoxy)phenyl]-9-[(4-methylphenyl)sulfonyl]-, ethyl ester (9CI)
MF C30 H42 O8 S



ALL ANSWERS HAVE BEEN SCANNED

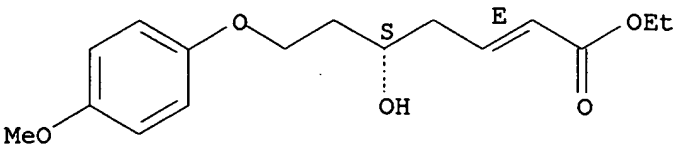
=> e 2-Heptenoic acid, 5-hydroxy-7-(4-methoxyphenoxy)-, ethyl ester,/cn
E1 1 2-HEPTENOIC ACID, 5-HYDROXY-7-((4-METHOXYPHENYL)METHOXY)-4-METHYL-, METHYL ESTER, (2E,4S,5R)-/CN
E2 1 2-HEPTENOIC ACID, 5-HYDROXY-7-((4-METHOXYPHENYL)METHOXY)-4-METHYL-, METHYL ESTER, (R-(R*,S*-(E)))-/CN
E3 0 --> 2-HEPTENOIC ACID, 5-HYDROXY-7-(4-METHOXYPHENOXY)-, ETHYL ESTER,/CN
E4 1 2-HEPTENOIC ACID, 5-HYDROXY-7-(4-METHOXYPHENOXY)-, ETHYL ESTER, (2E,5S)-/CN
E5 1 2-HEPTENOIC ACID, 5-HYDROXY-7-(PHENYLMETHOXY)-, ETHYL ESTER, (E)-/CN
E6 1 2-HEPTENOIC ACID, 5-HYDROXY-7-(PHENYLMETHOXY)-, METHYL ESTER, (2E,5R)-/CN
E7 1 2-HEPTENOIC ACID, 5-HYDROXY-7-(PHENYLMETHOXY)-, METHYL ESTER, (S-(E))-/CN
E8 1 2-HEPTENOIC ACID, 5-HYDROXY-7-METHOXY-5-METHYL-, ETHYL ESTER /CN
E9 1 2-HEPTENOIC ACID, 5-HYDROXY-7-PHENYL-, Δ-LACTONE/CN
E10 1 2-HEPTENOIC ACID, 5-HYDROXY-7-PHENYL-, ETHYL ESTER, (2E)-/CN
E11 1 2-HEPTENOIC ACID, 5-HYDROXY-7-PHENYL-, ETHYL ESTER, (2E,5S)-/CN
E12 1 2-HEPTENOIC ACID, 5-HYDROXY-7-PHENYL-, METHYL ESTER, (2E)-/CN

=> e4
L9 1 "2-HEPTENOIC ACID, 5-HYDROXY-7-(4-METHOXYPHENOXY)-, ETHYL ESTER, (2E,5S)-"/CN

=> d l9

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 912457-38-6 REGISTRY
ED Entered STN: 06 Nov 2006
CN 2-Heptenoic acid, 5-hydroxy-7-(4-methoxyphenoxy)-, ethyl ester, (2E,5S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H22 O5
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 190.24 | 190.45 |

FILE 'CAPLUS' ENTERED AT 06:07:37 ON 01 DEC 2006


FILE COVERS 1907 - 1 Dec 2006 VOL 145 ISS 23
FILE LAST UPDATED: 29 Nov 2006 (20061129/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

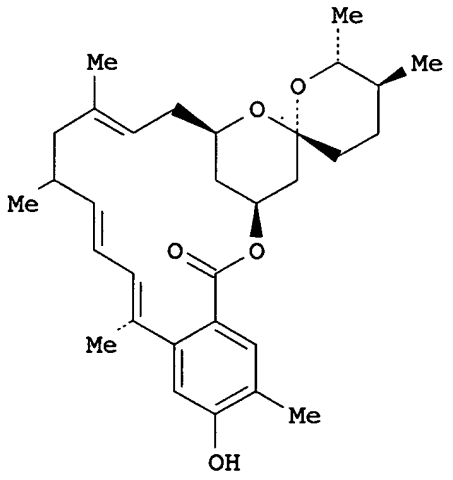
http://www.cas.org/infopolicy.html

=> 19
L10 1 L9

=> d l10 ti fbib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
TI De Novo Asymmetric Synthesis of Milbemycin β3 via an Iterative Asymmetric Hydration Approach
AN 2006:784680 CAPLUS
DN 145:418819
TI De Novo Asymmetric Synthesis of Milbemycin β3 via an Iterative Asymmetric Hydration Approach
AU Li, Miaosheng; O'Doherty, George A.
CS Department of Chemistry, West Virginia University, Morgantown, WV, 26506, USA
SO Organic Letters (2006), 8(18), 3987-3990
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English

GI



I

AB The enantioselective synthesis of the spiroketal/macrolide natural product milbemycin β3 (I) has been achieved in 22 steps and 2.8% overall yield from an achiral dienoate. The spiroketal ring system was installed by three sequential asym. hydrations followed by sprioketalization. Both the absolute and relative stereochem. of milbemycin β3 was introduced by two Sharpless asym. dihydroxylations, two π-allylpalladium-catalyzed redns., and an iridium-catalyzed hydrogen migration/Claisen rearrangement to install the C-12 stereocenter.

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> e 5-Octynoic acid, 8-[2-(pentyloxy)phenyl]-, methyl ester/cn
REG1stRY INITIATED
Substance data EXPAND from CAS REGISTRY in progress...

| | | |
|---|---|---|
| E1 | 1 | 5-OCTYNOIC ACID, 7-((1R,3AS,4E,7AR)-4-((2Z)-((3S,5R)-3,5-BIS(((1,1-DIMETHYLETHYL)DIMETHYLSILYL)OXY)-2-METHYLENECYCLOHEXYLIDENE)ETHYLIDENE)OCTAHYDRO-7A-METHYL-1H-INDEN-1-YL)-4-HYDROXY-2-METHYLENE-, MET/CN |
| E2 | 1 | 5-OCTYNOIC ACID, 8,8'-(2,2-DIMETHYL-1,3-DIOXOLANE-4,5-DIYL)BIS(8-(BENZOYLOXY)-, DIMETHYL ESTER, (4R-(4A(R*),5.BETA.(R*)))-/CN |
| E3 | 0 --> | 5-OCTYNOIC ACID, 8-2-(PENTYLOXY)PHENYL -, METHYL ESTER/CN |
| E4 | 1 | 5-OCTYNOIC ACID, 8-(((1,1-DIMETHYLETHYL)DIMETHYLSILYL)OXY)-2,2-DIMETHYL-8-(2-(PENTYLOXY)PHENYL)-, METHYL ESTER/CN |
| E5 | 1 | 5-OCTYNOIC ACID, 8-(((1,1-DIMETHYLETHYL)DIMETHYLSILYL)OXY)-8-(2-(PENTYLOXY)-3-PYRIDINYL)-, METHYL ESTER/CN |
| E6 | 1 | 5-OCTYNOIC ACID, 8-(((1,1-DIMETHYLETHYL)DIMETHYLSILYL)OXY)-8-(2-(PENTYLOXY)PHENYL)-, METHYL ESTER/CN |
| E7 | 1 | 5-OCTYNOIC ACID, 8-(((1,1-DIMETHYLETHYL)DIMETHYLSILYL)OXY)-8-(2-(PENTYLOXY)PHENYL)-, METHYL ESTER, (8R)-/CN |
| E8 | 1 | 5-OCTYNOIC ACID, 8-(((1,1-DIMETHYLETHYL)DIMETHYLSILYL)OXY)-8-(2-(PENTYLOXY)PHENYL)-, METHYL ESTER, (8S)-/CN |
| E9 | 1 | 5-OCTYNOIC ACID, 8-(((1,1-DIMETHYLETHYL)DIMETHYLSILYL)OXY)-8-(3-(PENTYLOXY)-2-NAPHTHALENYL)-, METHYL ESTER/CN |
| E10 | 1 | 5-OCTYNOIC ACID, 8-((3AR,5S,6AR)-TETRAHYDRO-2,2-DIMETHYLFURO(2,3-D)-1,3-DIOXOL-5-YL)-8-(((TRIFLUOROMETHYL)SULFONYL)OXY)- |

```
                    , METHYL ESTER, (8R)-/CN
E11          1      5-OCTYNOIC ACID, 8-((4S,6R)-2,2-DIMETHYL-6-((1E)-3-OXO-1-PRO
                    PENYL)-1,3-DIOXAN-4-YL)-8-IODO-, METHYL ESTER, (8S)-/CN
E12          1      5-OCTYNOIC ACID, 8-((4S,6R)-2,2-DIMETHYL-6-(1E)-1,3-NONADIEN
                    YL-1,3-DIOXAN-4-YL)-8-IODO-, METHYL ESTER, (8S)-/CN


=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.46     199.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -0.75

FILE 'REGISTRY' ENTERED AT 06:15:37 ON 01 DEC 2006
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STRUCTURE FILE UPDATES:   29 NOV 2006  HIGHEST RN 914337-13-6
DICTIONARY FILE UPDATES:  29 NOV 2006  HIGHEST RN 914337-13-6

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> e 5-Octynoic acid, 8-(2-(pentyloxy)phenyl)-, methyl ester/.cn
'.CN' IS NOT VALID HERE
The user-defined search field specified does not exist.  For more
information, enter HELP SET FIELD at an arrow prompt (=>).

=> e 5-Octynoic acid, 8-(2-(pentyloxy)phenyl)-, methyl ester/cn
E1           1      5-OCTYNOIC ACID, 8-((4S,6R)-6-(BIS(ETHYLTHIO)METHYL)-2,2-DIM
                    ETHYL-1,3-DIOXAN-4-YL)-8-IODO-, METHYL ESTER, (8S)-/CN
E2           1      5-OCTYNOIC ACID, 8-((4S,6R)-6-FORMYL-2,2-DIMETHYL-1,3-DIOXAN
                    -4-YL)-8-IODO-, METHYL ESTER, (8S)-/CN
E3           1 --> 5-OCTYNOIC ACID, 8-(2-(PENTYLOXY)PHENYL)-, METHYL ESTER/CN
E4           1      5-OCTYNOIC ACID, 8-(2-FURANYL)-8-HYDROXY-, METHYL ESTER/CN
E5           1      5-OCTYNOIC ACID, 8-(2-FURANYL)-8-METHOXY-/CN
E6           1      5-OCTYNOIC ACID, 8-(2-FURANYL)-8-METHOXY-, METHYL ESTER/CN
E7           1      5-OCTYNOIC ACID, 8-(2-OXABICYCLO(3.1.0)HEX-3-EN-6-YL)-8-OXO-
                    , METHYL ESTER/CN
E8           1      5-OCTYNOIC ACID, 8-(3-FURANYL)-, METHYL ESTER/CN
E9           1      5-OCTYNOIC ACID, 8-(6-(1-(ACETYLOXY)-4,4-DIMETHOXY-2-NITRONO
                    NYL)-2,2-DIMETHYL-1,3-DIOXAN-4-YL)-8-METHOXY-, METHYL ESTER,
                     (4S-(4A(S*),6A(1R*,2S*)))-/CN
E10          1      5-OCTYNOIC ACID, 8-(6-(1-(ACETYLOXY)-4,4-DIMETHOXY-2-NITRONO
                    NYL)-2,2-DIMETHYL-1,3-DIOXAN-4-YL)-8-METHOXY-, METHYL ESTER,
```

```
                    (4S-(4A(S*),6B(1S*,2R*)))-/CN
E11          1      5-OCTYNOIC ACID, 8-(6-(1-HYDROXY-4,4-DIMETHOXY-2-NITRONONYL)
                    -2,2-DIMETHYL-1,3-DIOXAN-4-YL)-8-METHOXY-, METHYL ESTER, (4S
                    -(4A(S*),6B(1R*,2S*)))-/CN
E12          1      5-OCTYNOIC ACID, 8-(6-(1-HYDROXY-4,4-DIMETHOXY-2-NITRONONYL)
                    -2,2-DIMETHYL-1,3-DIOXAN-4-YL)-8-METHOXY-, METHYL ESTER, (4S
                    -(4A(S*),6B(1S*,2R*)))-/CN

=> e3
L11          1 "5-OCTYNOIC ACID, 8-(2-(PENTYLOXY)PHENYL)-, METHYL ESTER"/CN

=> d l11

L11  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   898909-76-7  REGISTRY
ED   Entered STN:  06 Aug 2006
CN   5-Octynoic acid, 8-[2-(pentyloxy)phenyl]-, methyl ester (9CI)
     (CA INDEX NAME)
MF   C20 H28 O3
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT
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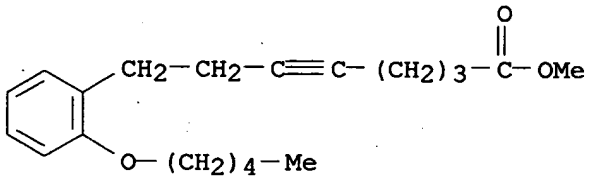


```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              1 REFERENCES IN FILE CA (1907 TO DATE)
              1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      11.50     211.11

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -0.75

FILE 'CAPLUS' ENTERED AT 06:21:59 ON 01 DEC 2006
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                    ECEN-1-YNYL)-5-OXOCYCLOPENTYL)-, METHYL ESTER, (1R-(1A
                    ,2B(3S*,5S*),3A))-/CN
E2          1       2-HEPTYNOIC ACID, 7-(4,7-DIHYDRO-5,7-DIOXO-5H-THIENO(2,3-C)P
                    YRAN-4-YL)-, METHYL ESTER/CN
E3          1 --> 2-HEPTYNOIC ACID, 7-(4-METHOXYPHENOXY)-, ETHYL ESTER/CN
E4          1       2-HEPTYNOIC ACID, 7-(4-MORPHOLINYL)-, 4-((3-METHYL-4-(3-THIE
                    NYLMETHYL)PHENYL)AMINO)-6-QUINAZOLINYL ESTER/CN
E5          1       2-HEPTYNOIC ACID, 7-(4-MORPHOLINYL)-, 4-((4-(2-THIENYLMETHOX
                    Y)PHENYL)AMINO)-6-QUINAZOLINYL ESTER/CN
E6          1       2-HEPTYNOIC ACID, 7-(4-MORPHOLINYL)-, 4-((4-(PHENYLMETHOXY)P
                    HENYL)AMINO)-6-QUINAZOLINYL ESTER/CN
E7          1       2-HEPTYNOIC ACID, 7-(4-MORPHOLINYL)-, 4-((4-PHENOXYPHENYL)AM
                    INO)-6-QUINAZOLINYL ESTER/CN
E8          1       2-HEPTYNOIC ACID, 7-(4-MORPHOLINYL)-, 4-(6-CHLORO-2,3-DIHYDR
                    O-1H-INDOL-1-YL)-6-QUINAZOLINYL ESTER/CN
E9          1       2-HEPTYNOIC ACID, 7-(4-MORPHOLINYL)-, 4-(6-CHLORO-7-FLUORO-2
                    ,3-DIHYDRO-1H-INDOL-1-YL)-6-QUINAZOLINYL ESTER/CN
E10         1       2-HEPTYNOIC ACID, 7-(4-PROPYL-2,6,7-TRIOXABICYCLO(2.2.2)OCT-
                    1-YL)-, METHYL ESTER/CN
E11         1       2-HEPTYNOIC ACID, 7-(4-PYRIDYL)-/CN
E12         1       2-HEPTYNOIC ACID, 7-(4-PYRIDYL)-, HYDROCHLORIDE/CN


=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                        0.46     216.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                        0.00      -1.50

FILE 'REGISTRY' ENTERED AT 06:23:48 ON 01 DEC 2006
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STRUCTURE FILE UPDATES:   29 NOV 2006  HIGHEST RN 914337-13-6
DICTIONARY FILE UPDATES:  29 NOV 2006  HIGHEST RN 914337-13-6

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experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> e3
L13           1 "2-HEPTYNOIC ACID, 7-(4-METHOXYPHENOXY)-, ETHYL ESTER"/CN

=> d l13

L13  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
```

FILE COVERS 1907 - 1 Dec 2006 VOL 145 ISS 23
FILE LAST UPDATED: 29 Nov 2006 (20061129/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
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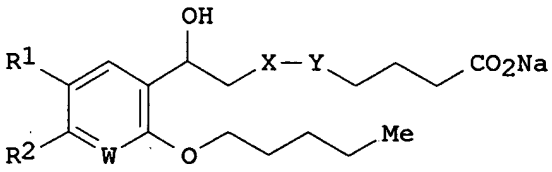
http://www.cas.org/infopolicy.html

=> l11
L12 1 L11

=> d l12 ti fbib abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
TI Synthesis of aromatic analogs of 8(S)-HETE and their biological evaluation as activators of the PPAR nuclear receptors
AN 2006:477347 CAPLUS
DN 145:145433
TI Synthesis of aromatic analogs of 8(S)-HETE and their biological evaluation as activators of the PPAR nuclear receptors
AU Caijo, Frederic; Mosset, Paul; Gree, Rene; Audinot-Bouchez, Valerie; Boutin, Jean; Renard, Pierre; Caignard, Daniel-Henri; Dacquet, Catherine
CS Laboratoire de Syntheses et Activations de Biomolecules, CNRS UMR 6052, ENSCR, Beaulieu, 35700, Fr.
SO European Journal of Organic Chemistry (2006), (9), 2181-2196
CODEN: EJOCFK; ISSN: 1434-193X
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
OS CASREACT 145:145433
GI



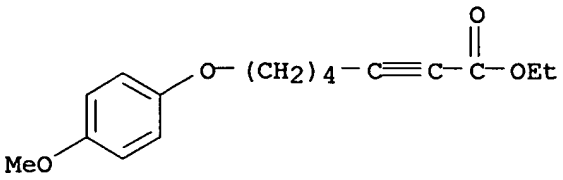

I

AB A new family of 8-HETE analogs, such as I [R1 = R2 = H, W = CH2, X-Y = (CH2)2, C.tplbond.C, CH:CH-(Z); R1 = R2 = H, W = N, X-Y = (CH2)2-, C.tplbond.C, CH:CH-(Z); R1R2 = CH:CHCH:CH, W = CH2, X-Y = (CH2)2, C.tplbond.C, CH:CH-(Z)], were synthesized as dual PPARα and PPARγ agonists. A versatile strategy was developed to allow modulations not only around the aromatic core but also on the side chains of these analogs. The affinity of these compds. towards the PPARα and PPARγ receptors was reported, together with their transactivation percentage. The derivs. having a propargylic type side chain gave the most promising results as dual agonists.
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> e 2-Heptynoic acid, 7-(4-methoxyphenoxy)-, ethyl ester/cn
REGISTRY INITIATED
Substance data EXPAND from CAS REGISTRY in progress...

E1 1 2-HEPTYNOIC ACID, 7-(3-HYDROXY-2-(3-HYDROXY-5,9-DIMETHYL-8-D

RN 912457-36-4 REGISTRY
ED Entered STN: 06 Nov 2006
CN 2-Heptynoic acid, 7-(4-methoxyphenoxy)-, ethyl ester (9CI) (CA INDEX NAME)
MF C16 H20 O4
SR CA
LC STN Files: CA, CAPLUS




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 7.10 | 223.23 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -1.50 |

FILE 'CAPLUS' ENTERED AT 06:24:05 ON 01 DEC 2006
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FILE COVERS 1907 - 1 Dec 2006 VOL 145 ISS 23
FILE LAST UPDATED: 29 Nov 2006 (20061129/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

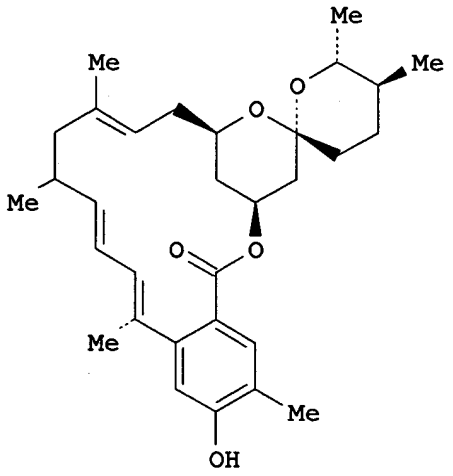
http://www.cas.org/infopolicy.html

=> l13
L14 1 L13

=> d l14 ti fbib abs

L14 ANSWER 1 OF 1 CAPLUS 

TI De Novo Asymmetric Synthesis of Milbemycin β3 via an Iterative Asymmetric Hydration Approach
AN 2006:784680 CAPLUS
DN 145:418819
TI De Novo Asymmetric Synthesis of Milbemycin β3 via an Iterative Asymmetric Hydration Approach
AU Li, Miaosheng; O'Doherty, George A.
CS Department of Chemistry, West Virginia University, Morgantown, WV, 26506, USA
SO Organic Letters (2006), 8(18), 3987-3990
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
GI




I

AB The enantioselective synthesis of the spiroketal/macrolide natural product milbemycin β3 (I) has been achieved in 22 steps and 2.8% overall yield from an achiral dienoate. The spiroketal ring system was installed by three sequential asym. hydrations followed by sprioketalization. Both the absolute and relative stereochem. of milbemycin β3 was introduced by two Sharpless asym. dihydroxylations, two π-allylpalladium-catalyzed redns., and an iridium-catalyzed hydrogen migration/Claisen rearrangement to install the C-12 stereocenter.
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 12.86 | 236.09 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -0.75 | -2.25 |

FILE 'REGISTRY' ENTERED AT 06:37:24 ON 01 DEC 2006

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STRUCTURE FILE UPDATES: 29 NOV 2006 HIGHEST RN 914337-13-6
DICTIONARY FILE UPDATES: 29 NOV 2006 HIGHEST RN 914337-13-6

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http://www.cas.org/ONLINE/UG/regprops.html

```
=> e 6-phenyl-2,4-hexadienoic acid/cn
E1            1      6-PHENYL-2,4-HEPTANEDIONE/CN
E2            1      6-PHENYL-2,4-HEXADIENE/CN
E3            0 --> 6-PHENYL-2,4-HEXADIENOIC ACID/CN
E4            1      6-PHENYL-2,4-HEXANEDIONE/CN
E5            1      6-PHENYL-2,4-LUTIDINE/CN
E6            1      6-PHENYL-2,4-PYRIMIDINEDIAMINE/CN
E7            1      6-PHENYL-2-((2-PROPYNYL)OXY)-N-(2-(3-METHOXY-4-((2-PROPYNYL)
                     OXY)PHENYL)ETHYL)HEXANAMIDE/CN
E8            1      6-PHENYL-2-(2-TOLYL)-2,3,4,5-TETRAHYDROPYRIDAZIN-3-ONE/CN
E9            1      6-PHENYL-2-(3-PHENYLPROPYL)HEXANOIC ACID/CN
E10           1      6-PHENYL-2-(PIPERIDIN-4-YL)-3-(2-TRIFLUOROMETHYLBENZYL)-3H-P
                     YRIMIDIN-4-ONE/CN
E11           1      6-PHENYL-2-(PIPERIDIN-4-YL)-3-(2-TRIFLUOROMETHYLBENZYL)-3H-P
                     YRIMIDIN-4-ONE HYDROCHLORIDE/CN
E12           1      6-PHENYL-2-(PYRIDIN-4-YL)PYRIMIDIN-4-OL/CN

=> 5-phenoxy-2,4-pentadienoic acid/cn
L15           0 5-PHENOXY-2,4-PENTADIENOIC ACID/CN

=> e e1
E1            1      6-PHENYL-2,4-DIOXOPERHYDRO-1,3,5-TRIAZINE/CN
E2            1      6-PHENYL-2,4-DIOXOPYRAN/CN
E3            1 --> 6-PHENYL-2,4-HEPTANEDIONE/CN
E4            1      6-PHENYL-2,4-HEXADIENE/CN
E5            1      6-PHENYL-2,4-HEXANEDIONE/CN
E6            1      6-PHENYL-2,4-LUTIDINE/CN
E7            1      6-PHENYL-2,4-PYRIMIDINEDIAMINE/CN
E8            1      6-PHENYL-2-((2-PROPYNYL)OXY)-N-(2-(3-METHOXY-4-((2-PROPYNYL)
                     OXY)PHENYL)ETHYL)HEXANAMIDE/CN
E9            1      6-PHENYL-2-(2-TOLYL)-2,3,4,5-TETRAHYDROPYRIDAZIN-3-ONE/CN
E10           1      6-PHENYL-2-(3-PHENYLPROPYL)HEXANOIC ACID/CN
E11           1      6-PHENYL-2-(PIPERIDIN-4-YL)-3-(2-TRIFLUOROMETHYLBENZYL)-3H-P
                     YRIMIDIN-4-ONE/CN
E12           1      6-PHENYL-2-(PIPERIDIN-4-YL)-3-(2-TRIFLUOROMETHYLBENZYL)-3H-P
                     YRIMIDIN-4-ONE HYDROCHLORIDE/CN

=> logoff hold
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               7.84     243.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
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